CNA's Integrated Ship Database

Fourth Quarter 2011 Update

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Photo credit

"Image: 070810-N-2638R-001.jpg. Description: Fuel lines connect USS Kitty Hawk (CV 63), USS McCampbell (DDG 85) and the oiler USNS John Ericsson (T-AO 194) during a replenishment at sea (RAS)." *Navy.mil Official Website of the United States Navy,* last accessed May 24, 2012, at http://www.navy.mil/view_single.asp?id=49396

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14. ABSTRACT

CNA's Integrated Ship Database (ISDB) brings together data on naval ships from disparate online government sources such as the Naval Vessel Register, the Military Sealift Command's Ship Inventory, USN Chief of Information's Navy Fact File, the Naval History and Heritage Command's Dictionary of American Naval Fighting Ships, and the Maritime Administration's Naval Defense Reserve Fleet Inventory. This document and its associated database file represent the 24th quarterly update of the ISDB since its inception in December 2005. New to the ISDB with this update is information on the operational ages of ships, both current and historical.

15. SUBJECT TERMS

ISDB, Ship Information, NVR, MSC Ship Inventory, Navy Fact File, DANFS, NDRF Inventory

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Introduction

Background

In December 2005, we published the first edition of CNA's Integrated Ship Database (ISDB) [1]. Our intent then, as now, was to bring together data on naval ships already available from separate sources into a single combined database tool. We wanted to keep this integrated information current. We wanted to make it readily accessible for analysis and reporting. And finally, we wanted to be able to rapidly respond to requests from our sponsor 1, from other CNA research scientists and analysts, and from others in government as well.

Since 2005, we have published 23 quarterly updates [2–24]. They are all available online on the <u>Integrated Ship Database page</u> of CNA's website, <u>www.cna.org</u> [25].

In this CNA Interactive Software document, we present our update for the fourth quarter of calendar year 2011.

Organization of the document

In the next section of the paper, we summarize the changes in this update, some of which have resulted in a "new look" for the database file. In the final section, we present an overview of the layout of the file and give some basic instructions on using the database. Because of the "new look," these instructions should be of value to the experienced user as well as to the beginner.

^{1.} This work is being conducted as part of the *Historic Fleet Employment Database Project*, sponsored by the Deputy Chief of Naval Operations for Operations, Plans and Strategy (N3/N5).

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Changes in this update

In the Excel file

Change to Excel 2010

With this update, we've moved from Microsoft Excel 2003 to Excel 2010 as our development and product software. Because we've introduced macros this time, the file type is now an Excel Macro-Enabled Worksheet (with the associated file name extension of .xlsm).

The .xlsm file type opens in Excel 2010 and Excel 2007, but not in Excel 2003 or earlier versions. We also provide an Excel 97-2003 Worksheet (or .xls) file for users with the older versions of Excel. The newly added macros will function with the earlier versions.

New worksheets added

The Document worksheet

In past updates, we reported changes as CNA Informal Memoranda (CMEs) apart from the Interactive Software product. In this update, we merge the two document types into a single Interactive Software document. We also insert the written document into a new worksheet tab in the Excel database file named *The Document*. Figure 1 shows the new sheet.

The document file and the Excel files are all available on the <u>Integrated Ship Database page</u> of CNA's web site – <u>www.cna.org</u> [25].

The Directory worksheet

To facilitate easier navigation, we added a directory sheet. Figure 2 displays *The Directory* sheet.

Figure 1. The Document worksheet

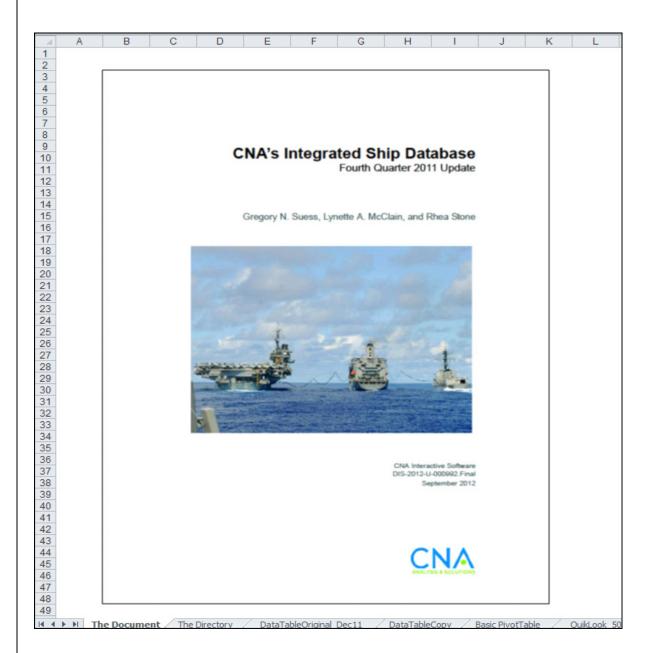
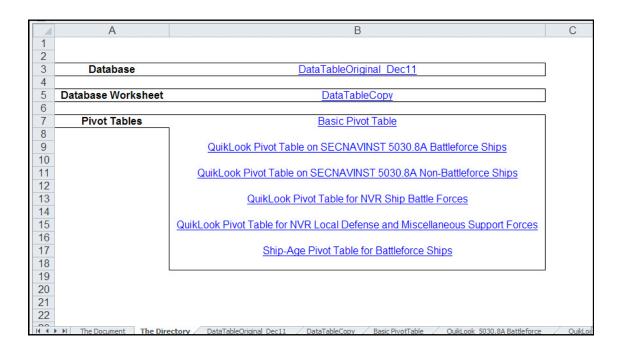


Figure 2. The Directory worksheet



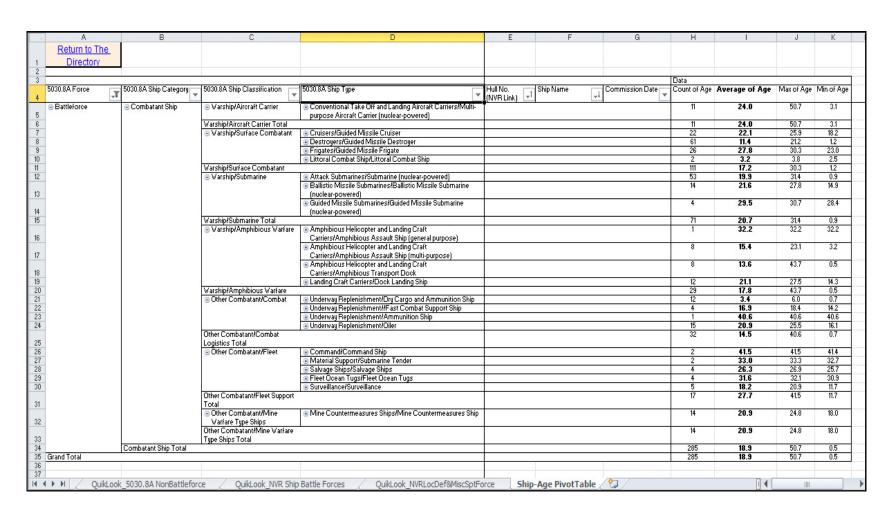
The Directory contains hyperlinks to the various worksheets in the file as indicated by the blue, underlined text font. For example, if you clicked on the link to the Ship-Age Pivot Table, you would see that sheet as shown in figure 3.

To navigate back to the directory page, you can just select the link in cell A1of the Pivot Table.

The Ship-Age Pivot Table

We added the *Ship-Age Pivot Table* as a result of a recent request for information on the ages of ships in fleet now, and in the past. In the opening view (Figure 3), the pivot table summarizes the age data for ships currently in the Battleforce.

The data in the pivot table is organized according to the various groups in the Secretary of the Navy's Instruction on ship classification and Battleforce ship counting [26], i.e. Force Category, Ship Category, Ship Classification, etc. The table shows the summary data for



each group including the number of ships in the group, the average age of the group, and the maximum and minimum ages of units in the group.

Changes to DataTableOriginal

DataTableOriginal_Dec11 is the worksheet containing all the data. Here we discuss the changes to this sheet.

The Age field

We added a field to the database for calculating the age of a ship. Figure 4 shows the location of the new field in column AB. It lies in the section with major dates in the life of a ship, i.e. Award Date, Keel Date, Delivery Date, Commission Date, Decommission/Out-of-Action Date, Stricken Date between the Commission and Decommission/Out-of-Action fields.

For ships currently in the fleet. We calculate the age of ships currently in the fleet as the fractional years between the Delivery Date and the current date. We selected the Delivery Date, and not the Commission Date, because of the direction in SECNAVINST 5030.8A:

Battleforce ships are counted as part of the Navy's active inventory effective upon acceptance by the Navy's accepting authority, Commander, Naval Sea Systems Command (COMNAVSEASYSCOM).

Specifically, we used the Excel functions, YEARFRAC() and TODAY(), to determine the age:

Age = YEARFRAC(TODAY(), "Delivery Date", 1)

where "1" specifies the number of significant decimals displayed.

Return to The Directory	Today is	Monday	July 16, 2012									
Ship Name	Abbrev	Prefix -	Hull No. (NVR Link)	Award Date 🐷	Keel Date 🐷	Launch Date 🐷	Delivery Date 🐷	Commission Date	Age 🕌	Decommissio	Inactivation Date	Stricker Date
MARYLAND	MAR	USS	SSBN 738	3/14/1986	4722/1986	8/10/1991	5/39/992	6/13/1992	20.1			
NEBRASKA PHODE ISLAND	NEB RHO	USS	SSBN 739	5/26/1987 1/5/1988	7/6/1987 9/15/1988	8/15/1992 7/17/1993	6/18/1993 6/22/1994	7/10/1993 7/9/1994	19.1			
MAINE	MNE	USS	SSBN 740 SSBN 741	10/5/1988	7/3/1990	7/16/1994	6/21/1995	7/29/1995	17.1			
VYOMING	VYO	USS	SSBN 742	10/18/1989	8/8/1991	7/15/1995	6/20/1996	7/13/1996	16.1			
LOUISIANIA	LNA	USS	SSEN 743	12/19/1990	10/23/1992	7/27/1996	8/14/1997	9/6/1997	14.9			
OHIO	OHI	USS	SSGN728	7/25/1974	4/10/1976	4/7/1979	10/28/1981	19191381	30.7			
MICHIGAN	MIC,MCH	USS	SSGN 727	2/28/1975	4/4/1977	4/26/1980	8/28/1982	9/11/1982	29.9			
FLORIDA	FLA	USS	SSGN 728	2/28/1975	1/19/1981	19/14/19/01 11/6/19/02	5/17/1983	6/10/1963	29.2			
GEORGIA EMORY S. LAND	GEO ESL	USS	SSGN 729 AS 39	2/20/1976 11/20/1974	4/7/1979 3/2/1976	5/4/1977	1/17/1984 3/2/1979	2/11/1984 7/7/1979	28.5			
FRANK CABLE	FCB	USS	AS 40	19/20/1974	3/2/1976	1/14/1978	9/28/1979	10/29/1979	32.8			
MOUNT VHITNEY	MVY, MTV	USS	LCC20	8/22/1966	W8/1969	9821970	12/18/1970	91671971	41.6			
PAUL F. FOSTER	PFF		EDD.964	6/23/1970	2/6/1973	2/22/1974	2/9/1976	2/21/1976	36.4			
PREVAIL			00537	2/13/1981	3/13/1985	12/7/1985	3/4/1986		26.4			
SANDIEGO	SD0,SDG	PCU	LPD22	6/V2006	5/23/2007	5/7/2010	12/19/2011		0.6			
BOONE	800	USS	FFG.28	W23V1978	3/27/1979	1/16/1980	5/6/1982	5/15/1982	30.2			
STEPHEN V. GROVES	SVG	USS	FFG29	1/23/1978	9/16/1980	4/4/1981	3/5/1982	4/17/1982	30.4			
CROMMELIN	CRO	USS	FFG 37	4/27/1979	5/30/1980	7/2/1981	6/9/1983	6/18/1983	29.1			
CURTS	CUR	USS	FFG38	4/27/1979	7/1/1981	3/6/1982	9/2/1983	10/8/1983	28.9			
MCCLUSKY	MCL,MCC	USS	FFG 41	4/27/1979	10/21/1981	9/18/1982	11/4/1983	12/10/1983	28.7			
KLAKRING	KLK	USS	FFG 42	4/27/1979	2/19/1982	9/18/1982	8/5/1983	8/20/1983	28.9			
DE VERT	DEV	USS	FFG.45	4/28/1980	6/14/1982	12/18/1982	1910/1983	11/19/1983	28.7			
ROBERT G. BRADLEY SIMPSON	RGB SIM	USS	FFG.43	4/28/1980	12/28/1982	8/13/1983	6/22/1984	6/30/1984	28.1			
RODNEY M. DAVIS	RMD	USS	FFG.56	3/22/1982 10/28/1982	2/27/1984 2/9/1985	8/31/1984 1/11/1986	9/13/1965 4/30/1987	9/21/1905 5/9/1987	26.8 25.2			
SHAPWELL	PIMU	055	LSD 65	9/10/1902	1/17/1944	5/24/9844	7/24/1944	7/24/9944	69.0			
PHILADELPHIA	PHI		SSN 690	1/8/1971	8/12/1972	10/19/1974	6/10/1977	6/25/1977	34.1	6/29/2011		
MEMPHIS	MEM		SSN 691	2/4/1971	6/23/1973	4/3/1976	12/14/1977	12/17/1977	33.3	Oranie and	4/7/2011	
SHASTA	SHA		AE 33	3/8/1968	1910/1969	4/3/1971	2/4/1972	2/26/1972	39.2		4/29/2011	
NASSAU	NAS		LHA.4	196/1970	8/16/1973	W2W1978	6/25/1979	7/28/1979	31.8	3/31/2011		
CLEVELAND	CLE		LPD7	V25/1963	19/30/1964	5/7/1966	4/3/1967	4/21/1967	44.5	9/30/2011		
DUBUQUE	DUB		LPD8	1/25/1963	1/25/1965	8/6/1966	8/21/1967	9/1/1967	43.9	6/30/2011		
LOS ANGELES KITTY HAVK	LAX		SSN 588	98/1971 10/91955	98/1972 12/27/1956	4/6/1974 5/29/1960	19291976 4791961	1913/1976 4/29/1961	34.3 48.1	2/4/2011 5/12/2009	279/2010 5/12/2009	2/4/20
TARAVA	KHK TAB	_	LV 63	5/1/1969	1915/1971	12/1/1973	5/14/1976	5/29/1976	32.9	3/3//2009	3/31/2009	
CHARLESTON	IAO		LKA III	6/11/1965	12/5/1966	12/2/1967	12/5/1968	12/14/1968	23.4	4/27/1992	STUREOUS	
DURHAM			LKA II4	6/11/1965	7/10/1967	3/29/1968	4/1/1969	5/24/1969	24.9	2/25/1994		
MOBILE			LKA165	6/11/1965	1/15/1968	10/19/1968	9/1/1969	9/29/1969	24.4	2/4/1994		
ST.LOUS			LKABS	67191965	4/3/1968	947969	10791969	1922/1969	23.1	11/2/1992		
EL PASO			LKA II7	8/22/1966	10/22/1968	5/17/1969	12/20/1969	W17/1970	24.3	4/21/1994		
JUNEAU	JUN		LPD10	5/23/1963	1/23/1965	2/12/1966	7/7/1969	7/12/1969	39.3	10/31/2008	10/31/2008 9/30/2009	
MASHVILLE MOUNT BAKER	MSH MTB	_	AF 34	5/15/1964 3/8/1968	3/14/1966 10/5/1970	10/7/1967	12/26/1969 7/6/1972	2/14/1970 7/22/1972	24.4	9/30/2009 12/18/1996	363062003	
MOHAVK	IMILE		ATE 170	2/27/1978	3/22/1979	5/17/1980	10/16/1980	THEOTISTE	N/A	LUI DO TO DO		
MELVILLE			AGOR H	9/30/1966	7/12/1967	7/10/1968	8/27/1969		N/A			
KNOFF			AGCR15	9/30/1966	9/9/1967	8/21/1968	1/14/1970		N/A			
THOMAS G. THOMPSON			AGOR 23	6/10/1988	3/29/1989	7/27/1990	7/8/1991		N/A			
ROGER REVELLE			AGCR24	9191993	12/9/1993	4/20/1995	6/11/1996		N/A			
ATLANTIS			AGCR25	2/15/1994	8/16/1994	2/1/1996	2/25/1997		N/A			
KILO MOANA CASSIN YOUNG			AGOR 25 DD 793	10/27/1999 6/14/1942	2/9/2001 3/19/1943	1917/2001 9/12/1943	9/3/2002 12/31/1943	12/31/1943	N/A 16.3	4/29/1960		12/1/197
TRIPOLI			LPH10	12/10/1962	6/15/1964	7/31/1965	7/20/1966	8/6/1966	29.2	9/15/1995		9/15/19:
KELLAR			AGS 25	V18/1962	19/20/1962	7/30/1964	V3V1969	01011000	N/A	0.10.1000		
IOVA			88.61	7/1/1939	6/27/1940	8/27/1942	3/28/1943	2/22/1943	47.6	10/26/1990		3/17/20
TICONDERIOGA	TICO		CG.47	9/22/1978	1/21/1980	4/25/1981	12/13/1982	1/22/1983	21.8	9/30/2004		9/30/20
RANGER	RGR		CV6	2/1/1954	8/2/1954	9/29/1956	8/V1957	8/10/1957	35.9	7/10/1993		3/8/20
JOHN F. KENNEDY	JFK		CV 67	4/30/1964	10/22/1964	5/27/1967	8/31/1968	9/7/1968	38.9	8/1/2007		10/16/21
EDSON			DD 946	927/1956 5/50/1967	12/3/1956	9471958	10/31/1958	19771958	30.1	12/15/1988		93919
CHARLES F. ADAMS SEA SHADOV			DDG 2 00529	3/28/1957 10/22/1982	6/15/1958	9/8/1959	8/39/1960 3/9/1985	9/10/1960	29.9 N/A	8/1/1990		19/20/15 8/22/20
CANON			P0.90	1/10/1965	6/20/1966	7/22/1967	7/26/1968	7/26/1968	8.5	V3V1977		10/9/19
BARRY			00.933	12/15/1952	3/15/1954	10/1/1955	8/31/1956	7/9/1956	26.2	11/5/1982		93919
NAUTILUS			SSM 571	8/2/1951	6/14/1952	9291954	4/22/1955	9/30/1954	24.9	3/3/1980		3/3/19
KILAUEA	KIL		AE.26	3/30/1965	3/10/1966	879/1967	671271968	871071968	12.3	10/1/1980	9/15/2008	9/15/20
CONCORD	CCD		AEGR	12/15/15/64	392631966	1291779966	19291968	19/27/1963	22.9	\$1/8/1980		8/18/20

We also added the current date to *DataTableOriginal_Dec 11* in cell D1 and the current day of the week in cell C1,² as shown in figure 5.

For ships no longer in the fleet. We calculated ship age for these ships based on available date information for each ship. Our preferred age calculation was for the time between the Delivery Date and the Decommission Date. If the Delivery Date was missing, we used the Commission Date instead. And if the Decommission Date was missing, we used the Inactivation Date.

For ships delivered or commissioned before 1900. Unfortunately, YEARFRAC() only works for dates on or after January 1, 1900. Quite a few ships in the database have Delivery and/or Commission Dates before 1900. For these cases, we modified a macro function available online from Microsoft Support named AgeFunc [27]. We named our modified version, AgeFuncFlt.

AgeFunc calculates the integer number of years between two dates. For our purposes, we wanted a floating point decimal result. You can find a listing of AgeFuncFlt in the Appendix.³

^{2.} To determine the day of the week, we applied Excel's WEEKDAY() function to convert the date to the corresponding numerical day of the week. We then using Excel's VLOOKUP() function to determine the name of the day from the lookup table at the bottom of the DataTable-Original sheet:

- 4	А	В				
3189						
3190	Numeric Day of Week	Day				
3191	1	Sunday				
3192	2	Monday				
3193	3	Tuesday				
3194	4	Wednesday				
3195	5	Thursday				
3196	6	Friday				
3197	7	Saturday				

3. AgeFunc and AgeFuncFlt can be found as Modules 1 and 2, respectively, in the VBA project for this workbook. You can open the Microsoft Visual Basic for Applications window by clicking on the Visual Basic button on the Developer Tab or by using the keyboard shortcut: Alt+F11.

Figure 5. Day and date display in DataTableOriginal_Dec11

	A	В	C	D	E	F	
1	Return to The Directory	Today is	Thursday	July 5, 2012			
2	Ship Name	Abbrev	Prefix	Hull No. (NYR Link)	NVR Type	UIC _	
3	NO NAME			AGS 66	AGS Surveying Ship	10544	Authorized, for US Navy construction
	NO NAME			DDG 114	DDG Guided Missile Destroyer		Authorized, for US Navy construction
	NO NAME			DDG 115	DDG Guided Missile Destroyer		Authorized, for US Navy construction
3	MICHAEL MONSOOR			DDG 1001	DDG Guided Missile Destroyer	23189	Authorized, for US Navy construction
7	MILVAUKEE			LCS5	LCS Littoral Combat Ship	20134	Authorized, for US Navy construction
3	JACKSON			LCS6	LCS Littoral Combat Ship	20135	Authorized, for US Navy construction
9	DETROIT			LCS7	LCS Littoral Combat Ship	20136	Authorized, for US Navy construction
0	MONTGOMERY			LCS8	LCS Littoral Combat Ship	20137	Authorized, for US Navy construction
1	JOHN P MURTHA			LPD26	LPD Amphibious Transport Dock	23182	Authorized, for US Navy construction
2	NORTH DAKOTA			SSN 784	SSN Submarine (Nuclear-Powered)	20037	Authorized, for US Navy construction
3	JOHN VARNER			SSN 785	SSN Submarine (Nuclear-Powered)	20038	Authorized, for US Navy construction
4	NO NAME			SSN 786	SSN Submarine (Nuclear-Powered)	20036	Authorized, for US Navy construction
	NONAME						
15	NONAME			SSN 787	SSN Submarine (Nuclear-Powered)	20182	Authorized, for US Navy construction
16				SSN 788	SSN Submarine (Nuclear-Powered)	27150	Authorized, for US Navy construction
7	NO NAME			SSN 789	SSN Submarine (Nuclear-Powered)	27151	Authorized, for US Navy construction
18	NO NAME			SSN 790	SSN Submarine (Nuclear-Powered)	27152	Authorized, for US Navy construction
19	NO NAME			SSN 791	SSN Submarine (Nuclear-Powered)	27153	Authorized, for US Navy construction
20	FORTITUDE			JHSV3	JHSV Joint High Speed Vessel	29786	Authorized, for US Navy construction
21	FALL RIVER			JHSV 4	JHSV Joint High Speed Vessel	29787	Authorized, for US Navy construction
22	RESOLUTE			JHSV 5	JHSV Joint High Speed Vessel	29788	Authorized, for US Navy construction
23				JHSV.6	JHSV Joint High Speed Vessel	29789	Authorized for construction
24				JHSV 7	JHSV Joint High Speed Vessel	29790	Authorized, for construction
				LPD 27	LPD Amphibious Transport Dock		·
25						3277A	Hull number assigned, authorized to be b
26				AGM 25	AGM Missile Range Instrumentation Ship	10546	Under construction in US by Navy, unass
27		MEV		AKE 13	AKE Dry Cargo and Ammunition Ship	29002	Under construction in US by Navy, unass
28				AKE 14	AKE Dry Cargo and Ammunition Ship	29003	Under construction in US by Navy, unass
29 30				CVN 78 DDG 112	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion) DDG Guided Missile Destroyer	23173 55688	Under construction in US by Navy, unass Under construction in US by Navy, unass
3U 31	ZUMWALT			DDG 1000	DDG Guided Missile Destroyer	20121	Under construction in US by Navy, unass
32				LCS3	LCS Littoral Combat Ship	20130	Under construction in US by Navy, unass
33	CORONADO			LCS4	LCS Littoral Combat Ship	20131	Under construction in US by Navy, unass
34	AMERICA			LHA 6	LHA Amphibious Assault Ship (General Purpose)	20103	Under construction in US by Navy, unass
35	ANCHORAGE	ANC		LPD 23	LPD Amphibious Transport Dock	3015A	Under construction in US by Navy, unass
36	ARLINGTON	ARL		LPD 24	LPD Amphibious Transport Dock	23180	Under construction in US by Navy, unass
37	SOMERSET	SOM		LPD 25	LPD Amphibious Transport Dock	23181	Under construction in US by Navy, unass
38	MISSISSIPPI	MIS		SSN 782	SSN Submarine (Nuclear-Powered)	20080	Under construction in US by Navy, unass
39		MIN		SSN 783	SSN Submarine (Nuclear-Powered)	20034	Under construction in US by Navy, unass
40				JHSV 2	JHSV Joint High Speed Vessel	29785	Under construction in US by Navy, unass
41	SPEARHEAD			JHSV1	JHSV Joint High Speed Vessel	29784	Under construction in US for US Army, N
12			USS	"Old Ironsides"	Other	01024	Active, in commission
43			USS	AGER 2	AGER Environmental Research Ship	20256	Active, in commission
44		ВКН	USS	CG 52	CG Guided Missile Cruiser	21345	Active, in commission
15		MOB	USS	CG 53	CG Guided Missile Cruiser	21346	Active, in commission
46		ANT	USS	CG 54	CG Guided Missile Cruiser	21387	Active, in commission
47		LTG	USS	CG 55	CG Guided Missile Cruiser	21388	Active, in commission
48 49		SJA LKC	USS	CG 56 CG 57	CG Guided Missile Cruiser CG Guided Missile Cruiser	21389 21428	Active, in commission Active, in commission
		ataTableOriginal D					A NonBattle

Comment information moved

In the past, we inserted amplifying information in cell comments. To better manage and display these comments, we moved them into the Additional Comments, References field in column AF.

Changes in the data

Routine data update

Our routine changes in this update aligned the ISDB with the Naval Vessel Register (NVR) [28 and 29], the Military Sealift Command's (MSC's) Ship Inventory [30 and 31], and the Maritime Administration's (MARAD's) National Defense Reserve Fleet (NDRF) Inventory [32 and 33] as of Dec. 31, 2011.

Changes in ship forces and counts

Our counts of ships in the Navy's 5030.8A Battleforce and the NVR Ship Battle Forces at the end of the fourth quarter of 2011 are both 285 ships, or one more than at the end of the previous quarter. The Navy took delivery of PCU San Diego (LPD 22) on Dec. 19, 2011 [34]. These counts agree with the count of 285 Battle Force Ships reported in CNO OPNOTES [35, 36].

As there were no changes in the Navy's 5030.8A Non-Battleforce during the quarter, our count remained at 55 ships. We validated this count against the numbers in the most recent Ship Annual Supplemental Data Table (SASDT) [37].

Similarly, the count of the NVR Local Defense & Miscellaneous Support Forces at the end of the quarter remained at 113 ships. Since this count is no longer published independently, we could not validate our count. Nevertheless, if we deduct the ships not included in the 5030.8A Non-Battleforce, i.e.,

- 48 ships in the MARAD-titled Ready Reserve Fleet;
- Three AOT Transport Oilers no longer regarded as RRF units by MARAD, but still counted by NVR among its Strategic Sealift Forces, and
- Seven ships chartered by MSC's Prepositioning and Sealift Programs,

the remainder of 55 ships agrees with the validated 5030.8A Non-Battleforce count.

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ISDB overview and basic instructions

In this section, we present an overview of the Integrated Ship Database. We tell you where to find the database online and how to access it there. We show how the database file is organized into data tables and pivot tables. And we show how to use the various features of Microsoft Excel 2010 to view and analyze the data.

Accessing the database

You can access the ISDB via CNA's web site at www.cna.org (figure 6). If you go to "Solution Centers" page (figure 7) and then to the page of the "Operations & Tactics Analysis" Division of CNA's Center for Naval Analyses (figure 8), you will see the link to the Integrated Ship Database page (figure 9). The specific URL is www.cna.org/centers/operations-tactics/ship-database.

The ISDB page presents links to the database updates for the current year. It also has a link to the Database Archive where this update is posted. Figure 10 is a view of the Archive page.

Under the 2011 updates, you can see two links for the December 2011 files: one for the Microsoft Excel Macro-Enabled Worksheet version of this update, (ISDB2011-12.xlsm ☒); and one for the Microsoft Excel 97-2003 Worksheet version, (ISDB2011-12.xls ☒).

With the Macro-Enabled version, you can use either Microsoft Excel 2007 or Excel 2010 in their respective full Excel modes. Excel 2003 or earlier versions will not be able to open ISDB2011-12.xlsm.

Excel 2003 will open the 97-2003 Worksheet version. Excel 2007 and Excel 2010 can open ISDB2011-12.xls, but only in Compatibility Mode. Some features will not work in Compatibility Mode. If you have the 2007 or 2010 Excel versions, we recommend you use the Macro-Enabled Worksheet file.

Figure 6. The CNA web site (www.cna.org)



Figure 7. CNA's Solution Centers

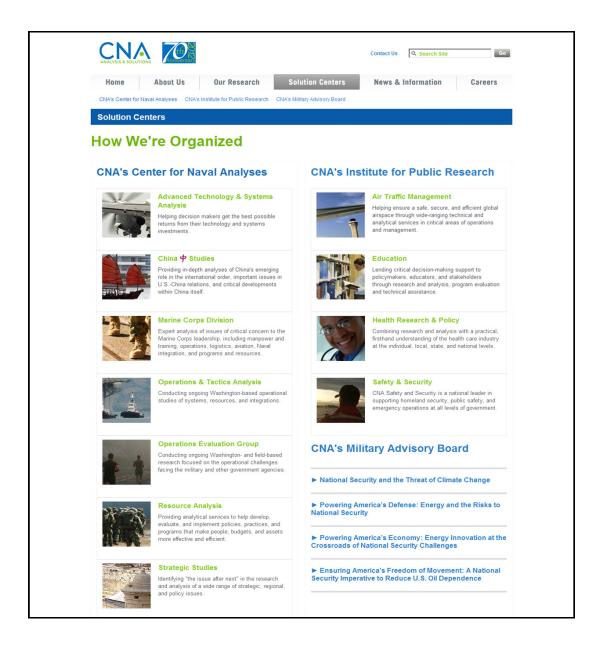


Figure 8. Operations & Tactics Analysis web page

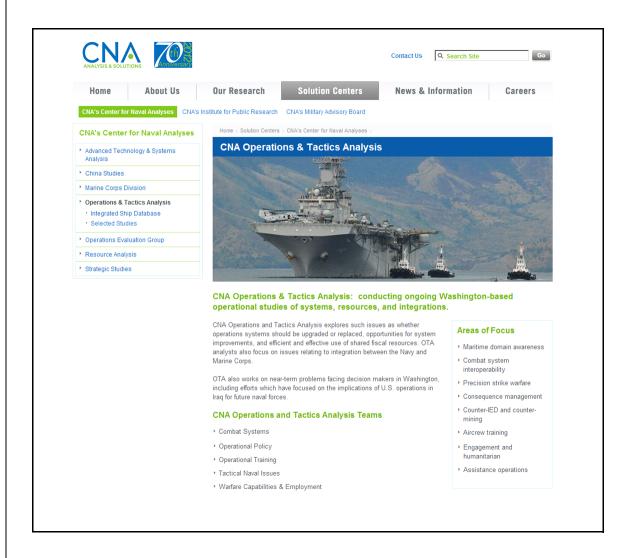


Figure 9. ISDB web page

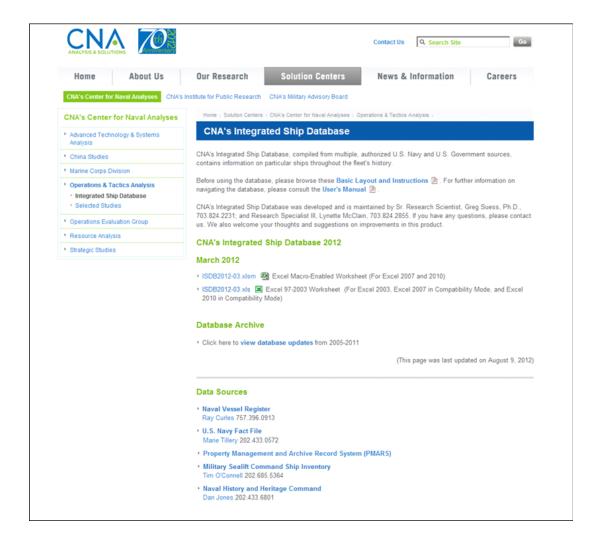


Figure 10. ISDB Database Archive web page

```
CNA's Integrated Ship Database
CNA's Integrated Ship Database, compiled from multiple, authorized U.S. Navy and U.S. Government sources, contains information on particular ships throughout the
fleet's history. A cover memo outlining the changes that appear in each update accompanies each database posting.
Database Archive
(This page was last updated on August 9, 2012)
2011

    ISDB2011-12.xlsm    Excel Macro-Enabled Worksheet (For Excel 2007 and 2010)

  • ISDB2011-12.xls 🗷 Excel 97-2003 Worksheet (For Excel 2003, Excel 2007 in Compatibility Mode, and Excel 2010 in Compatibility Mode)
→ September 2011 🗷 and cover memo 🕒
→ June 2011 🗷 and cover memo 🕒
March 2011 X and cover memo 🖹
2010
→ December 2010 🗷 and cover memo 🗷
> September 2010 ■ and cover memo 🗷
→ June 2010 🗷 and cover memo 🗷
→ March 2010 🗷 and cover memo 🕒
→ December 2009 🗷 and cover memo 🕒
→ September 2009 🗷 and cover memo 🕒
→ June 2009 🗷 and cover memo 🗷
March 2009 🗷 and cover memo 🗷
2008
December 2008 🗷 and cover memo 🖹
→ September 2008 🗷 and cover memo 🕒
→ June 2008 🗷 and cover memo 🖹
March 2008 🗷 and cover memo 🖹
2007
December 2007 X and cover memo
> September 2007 ■ and cover memo 🖹
→ June 2007 🗷 and cover memo 🖹
March 2007 🗷 and cover memo 🕒
→ December 2006 🗷 and cover memo 🔀
→ September 2006 🗷 and cover memo 🕒
→ June 2006 🗷 and cover memo 🖹
March 2006 🗷 and cover memo 🕒
2005
→ September 2005
Data Sources
Naval Vessel Register
 Ray Curles 757.396.0913
U.S. Navy Fact File
 Marie Tillery 202.433.0572
Property Management and Archive Record System (PMARS)
Military Sealift Command Ship Inventory
  Tim O'Connell 202.685.5364
› Naval History and Heritage Command
```

Structure of the database file

When you first open the database file, you will see the cover of this document as in figure 1. It is the first worksheet, titled *The Document*. At the bottom of figure 1, you can see six of the ten worksheet tabs in the data file. The complete list includes:

- The Document
- The Directory
- Two data tables
 - DataTableOriginal_Dec11
 - DataTableCopy
- Six pivot tables
 - Basic PivotTable
 - QuikLook_5030.8A Battleforce
 - QuikLook_5030.8A NonBattleforce
 - QuikLook_NVR Ship Battle Forces
 - QuikLook_NVRLocDef&MiscSptForces
 - Ship-Age PivotTable

The Document and The Directory worksheets

We introduced *The Document* and *The Directory* worksheets in the previous section. To avoid redundancy, we refer you to that discussion.

The data tables

DataTableOriginal_Dec11

Fields and records. Figure 11 shows the upper left corner of DataTableOriginal_Dec11. This sheet contains the entire ship database. It is a simple, traditional "flat file" type of database consisting of records (the rows) and fields (the columns).

-4	А	В	Ü	0	E	F	G
	Return to The Directory	Today is	Thursday	July 5, 2012			
	Ship Name	Abbrev	Prefix	Hull No. (NYR Link)	NVR Type	UIC _	Status
	NO NAME			AGS 66	AGS Surveying Ship	10544	Authorized, for US Navy construction
	NO NAME NO NAME			DDG 114 DDG 115	DDG Guided Missile Destroyer		Authorized, for US Navy construction
	MICHAEL MONSOOR				DDG Guided Missile Destroyer DDG Guided Missile Destroyer	23189	Authorized, for US Navy construction Authorized, for US Navy construction
	MILVAUKEE				LCS Littoral Combat Ship		Authorized, for US Navy construction
	JACKSON				LCS Littoral Combat Ship	20134	Authorized, for US Navy construction
	DETROIT				LCS Littoral Combat Ship	20135 20136	Authorized, for US Navy construction Authorized, for US Navy construction
	MONTGOMERY				LCS Littoral Combat Ship		
	JOHN P MURTHA			LCS8		20137	Authorized, for US Navy construction
	NORTH DAKOTA			LPD 26	LPD Amphibious Transport Dock	23182	Authorized, for US Navy construction
	JOHN VARNER			SSN 784 SSN 785	SSN Submarine (Nuclear-Powered)	20037	Authorized, for US Navy construction
	NO NAME			SSN 785 SSN 786	SSN Submarine (Nuclear-Powered)	20038	Authorized, for US Navy construction
_	NO NAME				SSN Submarine (Nuclear-Powered)	20181	Authorized, for US Navy construction
	NO NAME			SSN 787	SSN Submarine (Nuclear-Powered)	20182	Authorized, for US Navy construction
	NO NAME			SSN 788	SSN Submarine (Nuclear-Powered)	27150	Authorized, for US Navy construction
	NO NAME			SSN 789	SSN Submarine (Nuclear-Powered)	27151	Authorized, for US Navy construction
				SSN 790	SSN Submarine (Nuclear-Powered)	27152	Authorized, for US Navy construction
_	NO NAME			SSN 791	SSN Submarine (Nuclear-Powered)	27153	Authorized, for US Navy construction
-	FORTITUDE			JHSV3	JHSV Joint High Speed Vessel	29786	Authorized, for US Navy construction
-	FALL RIVER			JHSV 4	JHSV Joint High Speed Vessel	29787	Authorized, for US Navy construction
	RESOLUTE			JHSV 5	JHSV Joint High Speed Vessel	29788	Authorized, for US Navy construction
3	NO NAME			JHSV 6	JHSV Joint High Speed Vessel	29789	Authorized, for construction
4	COURAGEOUS			JHSV 7	JHSV Joint High Speed Vessel	29790	Authorized, for construction
5	NO NAME			LPD 27	LPD Amphibious Transport Dock	3277A	Hull number assigned, authorized to be built, construction contract has not been
6	HOVARD O. LORENZEN			AGM 25	AGM Missile Range Instrumentation Ship	10546	Under construction in US by Navy, unassigned to fleet
		MEV		AKE 13	AKE Dry Cargo and Ammunition Ship	29002	Under construction in US by Navy, unassigned to fleet
	CESAR CHAVEZ			AKE 14	AKE Dry Cargo and Ammunition Ship	29003	Under construction in US by Navy, unassigned to fleet
	GERALD R. FORD			CVN 78	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	23173	Under construction in US by Navy, unassigned to fleet
	MICHAEL MURPHY			DDG 112	DDG Guided Missile Destroyer	55688	Under construction in US by Navy, unassigned to fleet
	ZUMVALT			DDG 1000	DDG Guided Missile Destroyer	20121	Under construction in US by Navy, unassigned to fleet
2	FORT VORTH			LCS3	LCS Littoral Combat Ship	20130	Under construction in US by Navy, unassigned to fleet
3	CORONADO			LCS 4	LCS Littoral Combat Ship	20131	Under construction in US by Navy, unassigned to fleet
	AMERICA			LHA 6	LHA Amphibious Assault Ship (General Purpose)	20103	Under construction in US by Navy, unassigned to fleet
		ANC		LPD 23	LPD Amphibious Transport Dock	3015A	Under construction in US by Navy, unassigned to fleet
		ARL		LPD 24	LPD Amphibious Transport Dock	23180	Under construction in US by Navy, unassigned to fleet
		SOM		LPD 25	LPD Amphibious Transport Dock	23181	Under construction in US by Navy, unassigned to fleet
		MIS		SSN 782	SSN Submarine (Nuclear-Powered)	20080	Under construction in US by Navy, unassigned to fleet
		MIN		SSN 783	SSN Submarine (Nuclear-Powered)	20034	Under construction in US by Navy, unassigned to fleet
	CHOCTAV COUNTY SPEARHEAD			JHSV2 JHSV1	JHSV Joint High Speed Vessel JHSV Joint High Speed Vessel	29785 29784	Under construction in US by Navy, unassigned to fleet Under construction in US for US Army, NAVSEA is the contracting activity
	CONSTITUTION		USS		Other	01024	Active, in commission
	PUEBLO		USS		AGER Environmental Research Ship	20256	Active, in commission
			USS	CG 52	CG Guided Missile Cruiser	21345	Active, in commission
5	MOBILE BAY	MOB	USS	CG 53	CG Guided Missile Cruiser	21346	Active, in commission
			USS		CG Guided Missile Cruiser	21387	Active, in commission
			USS		CG Guided Missile Cruiser	21388	Active, in commission
			USS		CG Guided Missile Cruiser	21389	Active, in commission
			USS USS		CG Guided Missile Cruiser CG Guided Missile Cruiser	21428 21429	Active, in commission Active, in commission
			USS		CG Guided Missile Cruiser CG Guided Missile Cruiser	21429	Active, in commission Active, in commission
			USS		CG Guided Missile Cruiser	21449	Active, in commission
			USS	CG 61	CG Guided Missile Cruiser	21450	Active, in commission
			USS	CG 62	CG Guided Missile Cruiser	21451	Active, in commission
			USS	CG 63	CG Guided Missile Cruiser	21623	Active, in commission
			USS	CG 64	CG Guided Missile Cruiser	21624	Active, in commission
_			USS		CG Guided Missile Cruiser	21625	Active, in commission
4	▶ ► The Directory Da	taTableOriginal_D	ec11 / DataTable0	Copy Basic PivotTab	le QuikLook_5030.8A Battleforce QuikLook_5030.8A NonBattle	eforce	QuikLook_NVR Ship Battle Forces 4

A record or row contains information about a particular ship unit. The specific information about the unit resides in the fields or columns. The fields in *DataTableOriginal_Dec11* are:

- Column A: Ship Name
- Column B: Abbreviation
- Column C: Prefix
- Column D: <u>Hull No. (NVR Link)</u>⁴
 The links in this field are to the individual ship pages in the NVR. For example, figure 12 is the linked page for USS *George H W Bush* (CVN 77).
- Column E: NVR Type
- Column F: UIC

 (i.e., Unit Identification Code)
- Column G: Status
- Column H: Date Status Changed
- Column I: Class (Navy Fact File Links)

 These links go to the descriptive ship type and class information of the Navy Fact File on the Official Website of the Navy, America's Navy. Figure 13 shows the Fact File page for aircraft carriers.
- Column J: <u>NVR Force</u>
 Links to the various Forces reported in the NVR, i.e., <u>Battle Forces</u>, <u>Support Forces</u>, <u>Auxiliary Ships</u>, <u>Strategic Sealift Forces</u>, <u>Mobilization Forces</u>, <u>Category A Assets</u>, and <u>Mobilization Forces</u>, <u>Category B Assets</u>.
- Column K: 5030.8A Force
- Column L: 5030.8A Ship Category
- Column M: 5030.8A Ship Classification
- Column N: 5030.8A Ship Type

^{4.} In this list, we highlight fields containing hypertext links in the same font style as the cells in the database, i.e., by <u>blue</u>, <u>underlined text</u>.

Figure 12. NVR page for USS George H W Bush (CVN 77) [38]



Figure 13. Navy Fact File page for aircraft carriers [39]

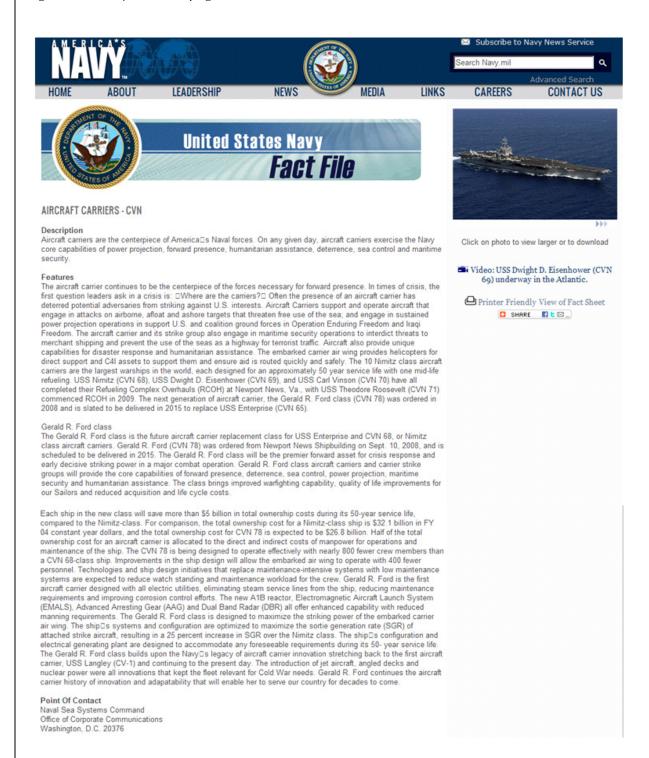
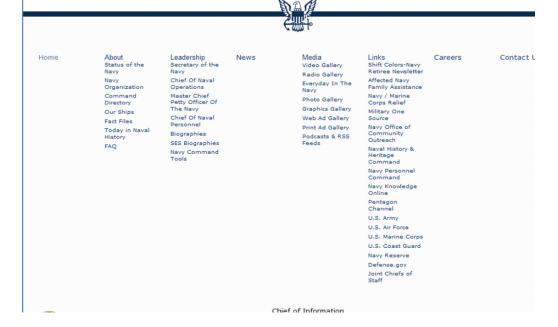


Figure 13. Navy Fact File page for aircraft carriers [39] (continued)

```
General Characteristics, Nimitz class
Builder: Newport News Shipbuilding Co., Newport News, Va.
Date Deployed: May 3, 1379 (USS Mimitz).
Unit Cost: About 34.5 billion sach.
Propulsion: Two nuclear reactors, four shafts.
Length: 1092 feet (322 85 meters).
Displacement: Approximately 97 000 tons (87,966 3 metirs tons) full load.
Speed: 30+ knots (34.5 + miles per hour).
Crew: Ships Company: 3,000.3200, air wing: 1,500, other: 500.
Armament: Multiple NATO Sea Sparrow, Phalanx CIWS, and Rolling Airframe Missile (RAM) mounts.
Aircraft: Approximately 60+.
Ships:
USS Nimitz (CVN 68). Bremeton, Wash.
USS Duslipht D. Eisenhouser (CVN 69), Indrolk, Va.
USS Card Yinson (CVN 70). San Diego, Calif.
USS Advarbam Lincoln (CVN 70). Sen Diego, Calif.
USS Advarbam Lincoln (CVN 70). Eventt. Wash.
USS George Washington (CVN 77). Eventt. Wash.
USS George Washington (CVN 77). Bremeton, Wash.
USS Abraham Lincoln (CVN 72). Bremeton, Wash.
USS George Washington (CVN 77). Norfolk, Va.
USS Ronald Reagan (CVN 76). San Diego, Calif.
USS George W.W. Bush (CVN 77). Norfolk, Va.
USS George W.W. Bush (CVN 77). Norfolk, Va.

General Characteristics, Enterprise class
Builder: Newport News Shipbuilding Co., Newport News, Va.
Builder: Newport News Shipbuilding Co., Defentions).
Enterprise (CVN 76). San Diego, Calif.
USS George H.W. Bush (CVN 77). Norfolk, Va.

General Characteristics, Enterprise class
Builder: Newport News Shipbuilding Co., Defentions).
The Company of the C
```



- Column O: <u>MSC Ship Link</u>
 These links go to MSC's individual ship pages, such as that for USNS *Comfort* (T-AH 20) in figure 14.
- Column P: <u>MSC Type (MSC Fact Sheet Link)</u>
 Links to MSC's Fact Sheets on the various ship types. Figure 15 shows the Fact Sheet for Hospital Ships.
- Column Q: <u>MARAD NDRF Program-Type / Status (PMARS Link)</u>

These inactive links were for MARAD's former Property Management & Archives System (PMARS) ship data pages. That systems has been suspended pending replacement. We have retained the former links for the historical record.

- Column R: <u>DANFS Entry (NHHC Link)</u>
 These links go to the Dictionary of American Naval Fighting Ships (DANFS) pages of the Naval History & Heritage Command (NHHC). Figure 16 shows the top portion of the DANFS page for USS *Enterprise* (CVN 65).
- Column S: Ship History Report (NHHC Link)
 These links take you to the NHHC's index pages for ships with annual Ship History Reports. Figure 17 is the index page for USS Enterprise (CVN 65). Figure 18 shows a page from USS Enterprise's Command Operations Report for 2005.)
- Column T: <u>Homeport (NVR Link)</u>
 These links take you to NVR's full list of ships in the respective homeports. See figure 19 for a sample list of ships homeported in Norfolk, VA.
- Column U: Previous, Other Names
- Column V: Award Date
- Column W: Keel Date
- Column X: Launch Date
- Column Y: Delivery Date

Figure 14. MSC Ship Inventory page for USNS Comfort (T-AH 20) [40]

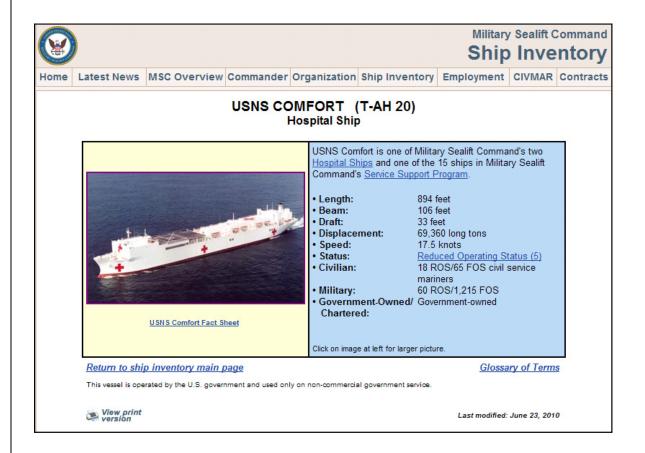
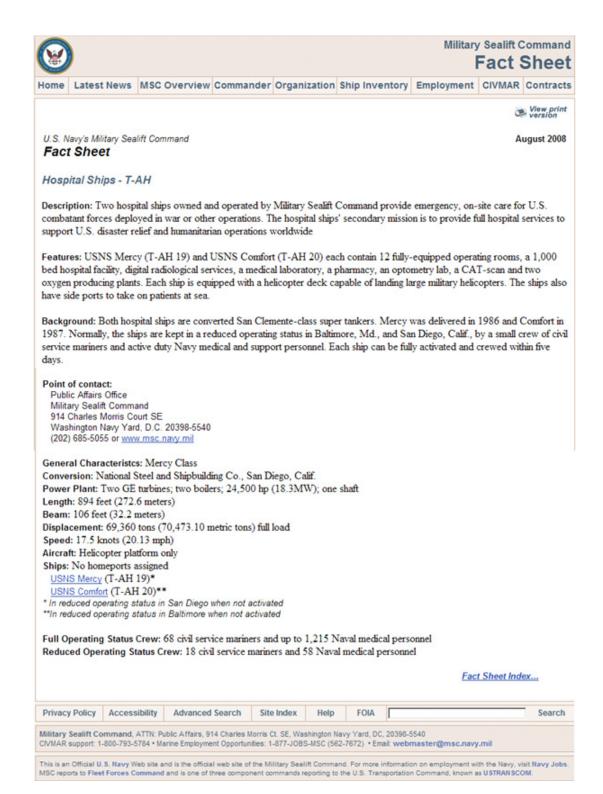


Figure 15. MSC Fact Sheet for Hospital Ships [41]



DANFS Index Naval History & Heritage Command home

of American
Naval Fighting Ships



DEPARTMENT OF THE NAVY -- NAVAL HISTORY & HERITAGE COMMAND

Enterprise

The eighth Enterprise (CVA(N)-65) was named in honor of the seventh Enterprise (CV-6) and her predecessor ships of that name.

VIII

(CVA(N)-65: displacement 85,600 tons (full load); length 1101'; beam 133'; extreme width 252'; draft 35'; speed 30+ knots; complement 4,600; class Enterprise)

Related Resource:

Video - An Answer: JFK Visits the Atlantic Fleet (1962)

History: 1961-1965

The eighth Enterprise (CVA(N)-65) - the world's first nuclear-powered aircraft carrier – was laid down on 4 February 1958 at Newport News, Va., by the Newport News Shipbuilding and Dry Dock Co.; launched on 24 September 1960; sponsored by Mrs. William B. Franke, wife of the Secretary of the Navy; and commissioned on 25 November 1961, Captain Vincent P. de Poix in command.

After commissioning, Enterprise began a lengthy series of tests and training exercises, designed to determine her full capabilities. Beginning six days of builder's and Navy pre-acceptance trials on 29 October 1961, she exceeded expectations, her reactors generating such horsepower that she "literally out-ran her destroyer escort."

Lieutenant Commander Oscar Folsom, Jr., Fleet Tactical Support Squadron (VRC)-40, became the first to fly from the ship's flight deck, transporting dignitaries, who had embarked to witness the sea trials, to shore in a Grumman C-1A Trader. Enterprise returned to port with a huge broom tied to her masthead, the traditional symbol of victory at sea, proclaiming a "clean sweep."

Enterprise went to sea for the first time as a commissioned ship for her shakedown cruise, on 12 January 1962, on that date also being announced as the flagship of Nuclear Task Force (TF) One. During this period she began fleet flight operations, when Commander George C. Talley, Jr., Commander Air Group (CAG), Carrier Air Group (CVG)-1 (Tail Code AB), made an arrested landing and catapult launch in an Ling Temco Vought F-8B Crusader (BuNo 145375) from Fighter Squadron (VF) 62 on 17 January.

After completing carrier qualifications (carquals), Enterprise was privileged to play a role in the space age, putting to sea for ten days as part of the Project Mercury Recovery Force off Bermuda. Three carriers, including The Big E, patrolled the most likely areas for reentry and impact of the capsule, but unforeseen delays postponed that second attempt to send a man into space and the ship returned to Norfolk.

The following weeks proved busy ones. On 5 February Enterprise sailed for the Caribbean and Guantánamo Bay, Cuba, for her shakedown with elements of CVG-1, including VF-62 (F-8Bs) and VF-102 (F-4Bs), Attack Squadron (VA)-15 (Douglas A-1H Skyraiders), VA-64 and VA-172 (McDonnell Douglas A-4C Skyhawks), Light Photographic Reconnaissance Squadron (VFP)-62 Detachment (Det) 60 (RF-8A Crusaders) and Carrier Airborne Early Warning Squadron (VAW)-12 Det 60 (Grumman E-1B Tracers) embarked.

In addition, en route to the Caribbean she paused at Mayport, Florida, to embark Heavy Attack Squadron (VAH)-7 (North American A-5A Vigilantes). On 15 February the ship logged her 1,000th

Figure 17. NHHC Command Operations/Ship History index page for USS Enterprise [43]

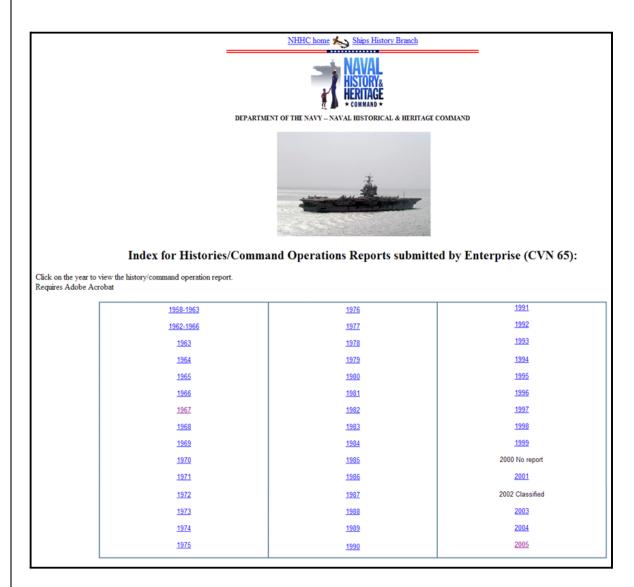


Figure 18. Sample from USS Enterprise Command Operations Report for 2005 [44]

UNCLASSIFIED

Subj: USS ENTERPRISE -- 2005 COMMAND OPERATIONS REPORT

OPERATIONS DEPARTMENT

Air Operations

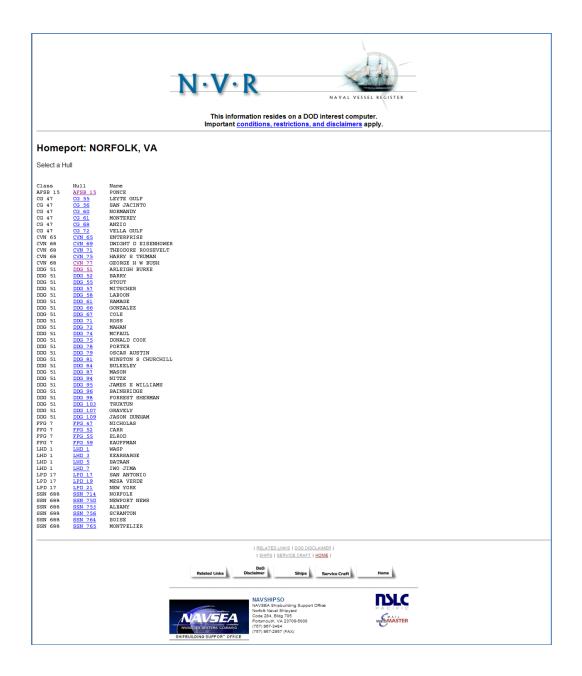
This past year has been one of tremendous activity and accomplishment for the Air Operations function within Operations Department. Composed of three Branches: Carrier Air Traffic Control Center (CATCC), Air Operations (Air Ops), and Air Transfer Office (ATO), this function is manned by five officers, two chief petty officers, and 38 enlisted Sailors. The year brought us the completion of Extended Ship's Restricted Availability (ESRA) and returned Enterprise to a sea-going fighting machine!

The Air Operations function began the year in the midst of ESRA at the Northrup-Grumman Newport News shipyard located in Newport News, Va. Air Operations established and operated a substantial transportation team which transported nearly 775,000 sailors from the pier to satellite parking sites accumulating over 665,000 vehicle miles in a 13 month period. In early spring, the CATCC team traveled to Pensacola, Fla. for annual team training. During this intensive two week hands-on refresher training, the CATCC-65 team surpassed all established records for professionalism, safety and adherence to air traffic control doctrine and procedures. After the completion of practical refresher training, Air Operations' attention was focused on preparing for the upcoming Commander, Naval Air Forces, U.S. Atlantic Fleet Quality Assurance audit. After an exhaustive inspection encompassing training procedures and documentation, publications, manuals and records, as well as an assessment of CATCC-65 team culture, the inspection team unearthed zero discrepancies in Air Operations.

Enterprise set sail for sea trials in late summer. Following a successful shake-down of all systems and a brief in-port period, Enterprise was underway again for Flight Deck Certification and CATCC Certification. While underway, Air Operations was integral in Air Department's regaining Flight Deck Certification, along with CATCC regaining Case III flight operations certification. Furthermore, Air Operations' air traffic control equipment was re-certified, including the Precision Approach Landing System (PALS), TACAN, and Instrument Landing System (BULLSEVE). After another brief in-port period, Enterprise set sail for TSTA and FEP. Air Operations function again set records by controlling CVW-1 aircraft in over 2207 sorties, moving 82,600 pounds of mail, parts and cargo, and transporting 637 passengers in a three week period.

End of year awards saw CATCC 65 personnel recognized for their excellence with the selection of ACC Bradley Vassar as the Commander, Naval Air Forces, U. S. Atlantic Fleet Air Traffic Controller of the Year. Divisional personnel were also recognized for superior performance in the field of excellence by earning two Navy Commendation Medals, twelve Navy and Marine Corps Achievement Medals, five Flag Letter of Commendations, and numerous Sailor of the Quarter awards.

Figure 19. NVR's Homeport page for Norfolk, VA [45]

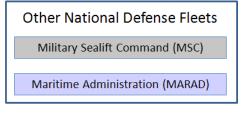


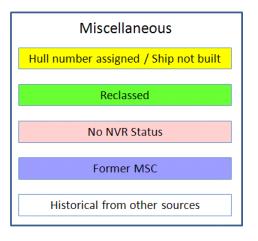
- Column Z: Commission Date
- Column AA: Age
- Column AB: Decommission/OOA Date
- Column AC: Inactivation Date
- Column AD: Stricken Date
- Column AE: Date Last Updated
- Column AF: Additional Comments; References

Cell shading. We have shaded the worksheet to visually distinguish various sections. Figure 20 is a legend for the coloring scheme.

Figure 20. Legend for DataTableOriginal_Dec11 color scheme







There are three sections in the figure. The section on the left represents the records of Navy ships distinguished by phases in the ship life cycle.

The group at the upper right of the figure represent the two organizations that contribute to the national defense and serve as custodians of NVR units, that is, MSC and MARAD.

The group at the lower right is a miscellaneous assortment:

- The upper three boxes in this group account for other records from the NVR.
 - The first subgroup is for units authorized for construction, assigned hull numbers, but never constructed.
 - The second subgroup includes records for units that were reclassified. These records show the original classification.
 - The third sub group has ship records that have not been assigned a status by NVR.
- The lower two subgroups include ship records derived from sources other than the NVR.
 - The first set includes former MSC ships recorded in MSC's Ship Inventory data.
 - The second set of records are for historical ship data come from other sources, specifically: the Navy Fact File; NHHC's DANFS; and MARAD's PMARS.

DataTableCopy

We protected *DataTableOriginal_Dec11* to preserve data integrity. You can use many of Excel's features in a protected worksheet, but you cannot use all of them (like the *Sort* function or toggling the *Autofilter* function on and off).

Consequently, we inserted a blank worksheet, named *DataTableCopy*, into which you can paste a copy of *DataTableOriginal_Dec11* and modify it without restriction. As an example, we sorted a copy of *DataTableOriginal_Dec11* by Ship Name. The result can be seen in figure 21.

A	В	С	D	E	F	G
Return to The Director	/ Today is	Thursday	July 5, 2012			
Ship Name	Abbrev	Prefix	Hull No. (NVR Link)	NVR Type	UIC	Status
1ST LT HARRY L. MARTIN	HLM	USNS	T-AK 3015	T-AK Cargo Ship	23005	Military Sealift Command (MSC), in service, contract operated
1ST LT JACK LUMMUS	JLS	USNS	T-AK 3011	T-AK Cargo Ship	21633	Military Sealift Command (MSC), in service, contract operated
1ST LT. ALEX BONNYMAN	ABN		AK 3003	AK Cargo Ship	21585	Disposed of by return to owner
1ST LT. BALDOMERO LOPEZ	BLE	USNS	T-AK 3010	T-AK Cargo Ship	21512	Military Sealift Command (MSC), in service, contract operated
2ND LT. JOHN P. BOBO	JPB	USNS	T-AK 3008	T-AK Cargo Ship	21629	Military Sealift Command (MSC), in service, contract operated
AIC VILLIAM H. PITSENBARGER	VHP		AK 4638	AK Cargo Ship	23518	Disposed of by return to owner
ABATAN			AW4	AW Distilling Ship	04842	Disposed of in support of Fleet training exercise
ABBOT			DD 629	DD Destroyer	04029	Disposed of, by Navy sale
ABLE	ABL	USNS	T-AGOS 20	T-AGOS Ocean Surveillance Ship	21866	Military Sealift Command (MSC), Special Mission Support
ABNAKI			ATF 96	ATF Fleet Ocean Tug	07096	Disposed of through the Security Assistance Program (SAP),
ABRAHAM LINCOLN	ABE	USS	CVN 72	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	21297	Active, in commission
ABRAHAM LINCOLN			SSBN 602	SSBN Ballistic Missile Submarine (Nuclear-Powered)	05110	Disposed of by submarine recycling
ACADIA			AD 42	AD Destroyer Tender	21047	Disposed of in support of Fleet training exercise
ACCOKEEK			ATA 181	ATA Auxiliary Ocean Tug	08108	Disposed of by transfer to other Government Agencies, State
ACHELOUS			ABLI	ARL Repair Ship, Small	50010	Disposed of by Navy sale
ACHELOUS ACHOMAVI			ATE 148	ATE Fleet Ocean Tug	30010	Disposed of, by Navy sale Disposed of, by Navy sale
					00450	
ACME			MSO 508	MSO Minesweeper, Ocean	08156	Disposed of, by Navy sale
ACREE			DE 167	DE Escort Ship	02867	Disposed of, by Navy sale
ACUBENS			AKS 5	AKS Stores Issue Ship		Historical from PMARS, DANFS
ADMIRAL V. M. CALLAGHAN	VMG		AKR 1001	AKR Vehicle Cargo Ship	43365	Forces. Sealist Program
ADONIS						Former MARAD/NDRF; Scrap sale
ADRIA			AF 30	AF Store Ship	08615	Disposed of by MARAD sale
ADROIT			MSO 509	MSO Minesweeper, Ocean	08157	Disposed of, by Navy sale
ADVANCE			MSO 510	MSO Minesweeper, Ocean	08158	Disposed of, by Navy sale
ADVENTURER						MARAD/NDRF, Not reported in NVR
ADVENTUROUS			AGOS 13	AGOS Ocean Surveillance Ship	21576	Disposed of by transfer to other Government Agencies, State
AEGIR			AS 23	AS Submarine Tender		Historical from PMARS, DANFS
AEOLUS			ARC3	ARC Cable Repairing Ship	01247	Disposed of by transfer to other Government Agencies, State
AFFRAY			MSO 511	MSO Minesweeper, Ocean	08159	Disposed of by scrapping, dismantling
			925292969			\$55,400 to 0,500 to 0
AGAVAM		(AOG 6	AOG Gasoline Tanker		Historical from PMARS, DANFS
AGENT						MARAD/NDRF, Not reported in NVR
AGERHOLM AGGRESSIVE			DD 826 MSO 422	DD Destroyer MSO Minesweeper, Ocean	52126 07952	Disposed of in support of Fleet training exercise Disposed of, by Navy sale
AGILE			MSU 422 MSU 421	MSO Minesweeper, Ocean MSO Minesweeper, Ocean	07952	Disposed of, by Navy sale Disposed of, by Navy sale
AIDE			1100 12	11100 11IIIIesweeper, Goedii	uraul	MARAD/NDRF, Not reported in NVR
AINSVORTH	AIN		FFT 1090	FFT Frigate (Reserve Training)	20068	Disposed of through the Security Assistance Program (SAP),
AJAX	CIIN		AR 6	AR Repair Ship	08806	Disposed of through the Security Assistance Program (SAP),
ALABAMA	ALA, ALB	USS	SSBN 731	SSBN Ballistic Missile Submarine (Nuclear-Powered)	21041	Active, in commission
ALABAMA	1		BB 60	BB Battleship	03060	Donated as a Museum and Memorial
ALABAMA			BB8	BB Battleship		Disposed of, sold for scrapping
ALACRITY			AG 520	AG Miscellaneous	08161	Disposed of, by Navy sale
ALAMANCE			AKA 75	AKA Attack Cargo Ship		Historical from PMARS, DANFS
ALAMO	ALM		LSD 33	LSD Dock Landing Ship	03133	Disposed of through the Security Assistance Program (SAP),
ALAN SHEPARD	SHE,ASD	USNS	T-AKE3	T-AKE Dry Cargo and Ammunition Ship	23193	Military Sealift Command (MSC) Naval Fleet Auxiliary Force
ALASKA	AKA	USS	SSBN 732	SSBN Ballistic Missile Submarine (Nuclear-Powered)	21042	Active, in commission
ALATNA			AOG 81	AOG Gasoline Tanker	04781	Disposed of by Navy title transfer to the Maritime Administrati
ALBACORE		1100	AGSS 569	AGSS Auxiliary Research Submarine	05580	Donated as a Museum and Memorial
ALBANY	ALY	USS	SSN 753	SSN Submarine (Nuclear-Powered)	21462	Active, in commission
ALBANY ALBEMARLE			CG 10 AV 5	CG. Guided Missile Cruiser	03623	Disposed of, by Navy sale Historical from PMARS, DANES
ALBEMARLE ALBERT DAVID			AV 5	AV Seaplane Tender	54045	Disposed of through the Security Assistance Program (SAP)
	DataTableOriginal_Dec1:	1 DataTableCon	Basic PivotTable	OuikLook 5030.8A Battleforce OuikLook 5030.8A NonBattleforce		NVR Ship Battle Forces 4 IIII
	beer		A DOME !	A COMMON TO THE REAL PROPERTY OF THE PARTY O	4	

The pivot tables

Microsoft Excel's pivot tables offer a way to filter, organize, apply calculations, and display information from a database. Furthermore, you can rapidly re-filter, reorganize, modify calculations, and re-display with pivot tables.

In this section, we describe the six pivot tables in the ISDB.

The Basic Pivot Table

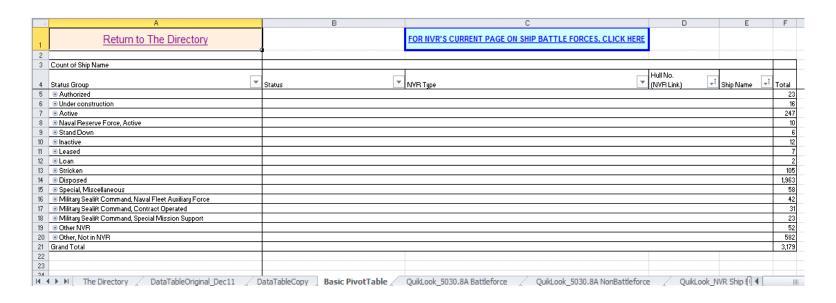
- The third worksheet in the database file is the *Basic PivotTable*. It provides a quick summary of the database contents. In figure 22, you see the opening view of *Basic PivotTable*. This compressed display shows the number of records in the database for the various Status Groups. These Groups include:

 For NVR ship records [46]

 Authorized

 Under Construction

 Active
 - Naval Reserve Force, Active
 - Stand Down
 - Inactive
 - Leased
 - Loan
 - Stricken
 - Disposed
 - Special, Miscellaneous
 - Military Sealift Command, Naval Fleet Auxiliary Force
 - Military Sealift Command, Contract Operated
 - Military Sealift Command, Special Mission Support
 - Other NVR



- For ship records not in NVR
 - Other, Not in NVR

To expand the display and reveal the ship counts in the various Status Groups, follow the steps in figure 23:

- 1. Select cell A4, "Status Group," and right-click to bring up the first drop-down menu.
- 2. Roll the cursor over the "Expand/Collapse" option in the first menu to display the second drop-down menu.
- 3. Left-click the "Expand" option.

Figure 24 shows the resulting expansion.

If you follow the same sequence of steps across "Status" and "NVR Type", you can see the successive expansions in figures 25 and 26.

Figure 26 is the fully expanded view of the pivot table. In it, you can see the detailed ship names and hull numbers for units within the various ship status groupings.

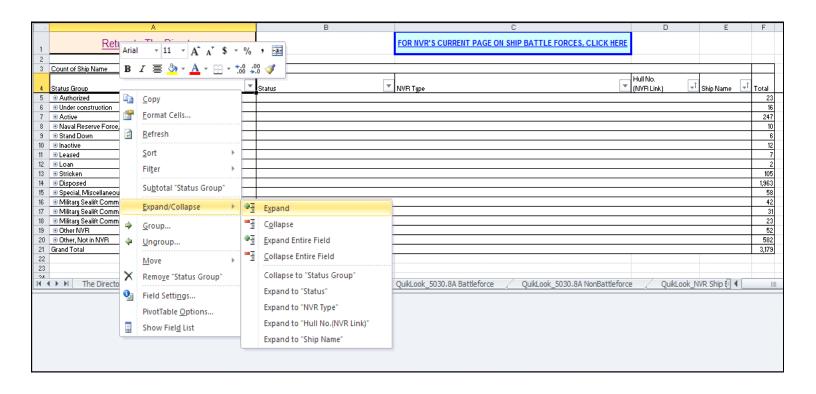


Figure 24. View of *Basic PivotTable* with Status Group expanded

- 4	A	В	С	D E	F	
	B / / T B: /					
1	Return to The Directory	l ·	FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE	ı		
2						
	Count of Ship Name				\neg	1
	Status Group	Status N	NVR Type	Hull No. Ship Name	Total	ī l
4	· · · · · · · · · · · · · · · · · · ·	▼		(NVR Link)	#Î	
8	☐ Under construction	■ Under construction in US by Navy, unassigned to fleet			15	5
9		■ Under construction in US for US Army, NAVSEA is the contracting activity				1
10	☐ Active	Active, in commission			24	4
11		Active, In service				3
12		■ Active, in commission / Military Sealift Command (MSC), Special Mission Support			3	3
13	■ Naval Reserve Force, Active	Naval Reserve Force, Active			10	o l
14	☐ Stand Down	■ In commission, in Reserve (Stand Down) commencement of inactivation availability			?	2
15		Out of commission, in reserve				1
16	□ Inactive	■ Inactive, Out of Commission, in reserve				ᆁ
17		■ Inactive, out of service, in reserve				4
18		Inactive, Out of Commission			——	1
19	■ Leased	® Leased (not SAP)			+	4
20	01	® SAP, Loaned or Leased			—	4
21	□ Loan	Loaned (not SAP), loan was effective/ renewed on date shown in "Status Date"			——	4
22	0.5.11	Loaned indefinitely and carried in the Ship Donation Program as a Museum and Memorial			—	1
23	■ Stricken	Stricken, available for donation as a museum and memorial				4
24		Stricken, retained by Navy as museum Online Stricken, retained by Navy as museum				4
25 26		Stricken, to be disposed of Children to be disposed of			27	
27		Stricken, to be disposed of by Navy sale Stricken, to be disposed of by recycling			18	4
28		Stricken, to be disposed or by recycling Stricken, to be disposed of by submarine recycling			17	4
29		Stricken, to be disposed or by submarine recycling Stricken, to be disposed of, retain as logistics support asset				#
30		Stricken, to be disposed or, retain as rugistics support asset Stricken, to be disposed of, retain as submarine moored training ship			+ ;	1
31		Stricken, to be disposed of, letain as submanile moored daming ship Stricken, to be disposed of by dismantling			12	5
32		Stricken, to be disposed of by abandoning, sinking, or burning Stricken, to be disposed of by abandoning, sinking, or burning				1
33		Stricken, to be disposed of in support of Fleet training exercise			-	il
34		■ Stricken, to be disposed of, type of disposal not known			7	2
		■ Stricken, to be disposed of by transfer to government agencies, activities, foreign countries (not			\neg	1
35		SAP), MARAD, Sea Scouts, etc			10	0
36		■ Stricken, to be disposed of by the Security Assistance Program (SAP), for cash sale			7	2
		The Navy awarded a contract for the dismantling of this ship, but it is not characterized as disposed			\neg	1
37		of until the contractor completes and certifies completion of the dismantling			1 7	2
		The Navy awarded a contract for the dismantling of this ship, but it is not characterized as disposed				1
38		of until the contractor delivery order is completed and certifies completion of the dismantling				1
39	☐ Disposed	Dedicated as a Memorial			\neg	il
40		Donated as a Museum and Memorial			35	5
41		■ Disposed of by abandoning, burning, scuttling, or sinking			10	
42		■ Disposed of by Donation for use as Artificial Reefing			7	2
43		Disposed of by MARAD exchange			64	
44		Disposed of by MARAD sale			99	3
45		Disposed of by navy title transfer				3
46		■ Disposed of by Navy title transfer to the Maritime Administration			166	ŝ
47		■ Disposed of by Recycling				3
48		Disposed of by return to owner			16	
49		Disposed of by scrapping, dismantling			139	
50		Disposed of by submarine recycling			103	4
51		■ Disposed of by transfer to other Government Agencies, States. Schools, Sea Scouts, etc.			42	
52		Disposed of in support of Fleet training exercise			213	3
		■ Disposed of through the Security Assistance Program (SAP), Foreign Military Sale or Lease				
53					2	.1
		■ Disposed of through the Security Assistance Program (SAP), transferred, cash sale, ex-US fleet				
54		hull foreign military sale case number assigned			399	3
14 4	► ► The Directory	# Disposed of through the Sequitin Assistance Program (SAP), transferred Foreign Assistance Act	QuikLook_5030.8A NonBattleforce QuikLook_NVR Ship Battle	E 4		4
4	► ► The Directory DataTableOriginal_Dec	11 DataTableCopy Basic PivotTable QuikLook_5030.8A Battleforce	QuikLook_5030.8A NonBattleforce QuikLook_NVR Ship Battle	Forces 4 III		410

A	В	C D E	F
B / / TI B: /	<u>-</u>		
Return to The Directory		FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE	
2	1		
3 Count of Ship Name			
Status Group	Status	NVR Type Hull No. Ship Name	
4	<u> </u>	(Per Films)	^{→†} Total
5 B Authorized	☐ Authorized, for US Navy construction ☐	AGS Surveying Ship	1
6		DDG Guided Missile Destroyer	3
7		⊕ LCS Littoral Combat Ship	4
9		LPD Amphibious Transport Dock COM Otherwise (Newton Present)	1 8
10		SSN Submarine (Nuclear-Powered) JHSV Joint High Speed Vessel	3
11	Authorized, for US Navy construction Total	m on 5 y John Kingh Speed vessel	20
12	Authorized, for construction Authorized, for construction	⊕ JHSV Joint High Speed Vessel	2
13	Authorized, for construction Total	- VI O'I VOINTIIGII OPECA TESSEI	2
			\top
14	■ Hull number assigned, authorized to be built, construction contract has not been awarded	⊕ LPD Amphibious Transport Dock	- 1
15	Hull number assigned, authorized to be built, construction contract has not been awarded Total		1
16 Under construction	☐ Under construction in US by Navy, unassigned to fleet ☐	AGM Missile Range Instrumentation Ship	1
17		CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	1
18		DDG Guided Missile Destroyer	2
19		LCS Littoral Combat Ship	2
20 21		LHA Amphibious Assault Ship (General Purpose) LPD Amphibious Transport Dock	+ +
			2
22 23		SSN Submarine (Nuclear-Powered) JHSV Joint High Speed Vessel	- 2
24		MKE Dry Cargo and Ammunition Ship	2
25	Under construction in US by Navy, unassigned to fleet Total	SAKE DIG CAIGO AND ANTINGINON ON P	15
26	Under construction in US for US Army, NAVSEA is the contracting activity	JHSV Joint High Speed Vessel	1
27	Under construction in US for US Army, NAVSEA is the contracting activity Total		1
28 - Active	☐ Active, in commission ☐	AGER Environmental Research Ship	1
29		■ CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	11
30		G Guided Missile Cruiser	22
31		DDG Guided Missile Destroyer	61
32		● FFG Guided Missile Frigate	16
33		LCC Amphibious Command Ship	1
34		LCS Littoral Combat Ship LIMA A published A published Ship	- 2
35 36		LHA Amphibious Assault Ship (General Purpose) LHD Amphibious Assault Ship (Multi-Purpose)	8
37		LPD Amphibious Transport Dock	7
38		LSD Dock Landing Ship	12
39		MCM Mine Countermeasures Ship	14
40		PC Patrol Coastal	13
41		SSBN Ballistic Missile Submarine (Nuclear-Powered)	14
42		SSGN Guided Missile Submarine (Nuclear-Powered)	4
43		SSN Submarine (Nuclear-Powered)	53
44	Andre to complete Table	Other	1
45 46	Active, in commission Total	■ EDD Self Defense Test Ship	241
46	Active, In service	EDD Self Derense Test Snip IX Unclassified Miscellaneous	+ +
48		LPD Amphibious Transport Dock	+ +
49	Active, In service Total	1	3
50	■ Active, in commission / Military Sealift Command (MSC), Special Mission Support	AS Submarine Tender	2
51	, , , , , , , , , , , , , , , , , , , ,	⊕ LCC Amphibious Command Ship	
52	Active, in commission / Military Sealift Command (MSC), Special Mission Support Total	Ties coo comprisons commente strip	3
53 B Naval Reserve Force, Active	Naval Reserve Force, Active	⊕ FFG. Guided Missile Frigate	10
54	Naval Reserve Force, Active Total		10
55 Stand Down	☐ In commission, in Reserve (Stand Down) commencement of inactivation availability	SSN Submarine (Nuclear-Powered)	2
56	In commission, in Reserve (Stand Down) commencement of inactivation availability Total	· · · · · · · · · · · · · · · · · · ·	2
	11 / DataTableCopy Basic PivotTable QuikLook 5030.8A Battleforce	QuikLook 5030.8A NonBattleforce QuikLook NVR Ship Battle Forces ◀ Ⅲ	

Figure 26. Top portion of Basic PivotTable fully expanded

A	В	С	D	E		F
Return to The Directory		FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE				
return to the birectory		TOWN TO SOME THE STATE OF SELECTION				
					_	
Count of Ship Name Status Group	Status	NVR Tupe	Hull No.	Ship Name	_	_
water circup	Status	NATH Type	(NVR Link)		-1 T	Tota
□ Authorized	Authorized, for US Navy construction	■ AGS Surveying Ship	■ AGS 66	NO NAME		TOCA
- Nationzea	- Addionaged, for our reasy construction	AGS Surveying Ship Total	1 5 AG5 00	Traditativite		_
		■ DDG Guided Missile Destroyer	■ DDG 1001	MICHAEL MONSOOR		_
		,	■ DDG 114	NO NAME	-	_
			■ DDG 115	NO NAME		_
		DDG Guided Missile Destroyer Total	•			
		■ LCS Littoral Combat Ship	⊕LCS5	MILWAUKEE		
			□ LCS 6	JACKSON		
			■ LCS 7	DETROIT		
			■LCS8	MONTGOMERY		
		LCS Littoral Combat Ship Total				
		■ LPD Amphibious Transport Dock	■ LPD 26	JOHN P MURTHA		
		LPD Amphibious Transport Dock Total	I = ===:		_	
		SSN Submarine (Nuclear-Powered)	■ SSN 784	NORTH DAKOTA		
			■ SSN 785	JOHN WARNER	\rightarrow	_
			■ SSN 786	NO NAME	\rightarrow	_
			■ SSN 787	NO NAME	-	_
			■ SSN 788	NO NAME	_	
			■ SSN 789	NO NAME	_	_
			■ SSN 790	NO NAME	-	_
		SSN Submarine (Nuclear-Powered) Total	■ SSN 791	NO NAME	\rightarrow	_
		JHSV Joint High Speed Vessel	■ JHSV 3	FORTITUDE	-	_
		a one of source migri speed vesser	■ JHSV 3	FALL RIVER	-	_
			B JHSV 5	RESOLUTE	-	_
		JHSV Joint High Speed Vessel Total	B UHSV S	INESOCUTE	-+	_
	Authorized, for US Navy construction Total	or to a contact light opera areaser to call			-	-
	Authorized, for construction	■ JHSV Joint High Speed Vessel	■ JHSV 6	NO NAME	_	
	- Addiolized, for construction	o or o rount iight opera resser	■ JHSV 7	COURAGEOUS	-	_
		JHSV Joint High Speed Vessel Total			-	_
	Authorized, for construction Total	3			-	_
	☐ Hull number assigned, authorized to be built, construction contract has not been	■ LPD Amphibious Transport Dock				_
	awarded		■ LPD 27	NO NAME		
		LPD Amphibious Transport Dock Total				_
	Hull number assigned, authorized to be built, construction contract has not been awa					
☐ Under construction	☐ Under construction in US by Navy, unassigned to fleet	■ AGM Missile Range Instrumentation Ship	■ AGM 25	HOVARD O. LORENZEN		
		AGM Missile Range Instrumentation Ship Total		_		
		CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	■ CVN 78	GERALD R. FORD		
		CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion) Total				
		■ DDG Guided Missile Destroyer	■ DDG 1000	ZUMWALT		_
			■ DDG 112	MICHAEL MURPHY		_
		DDG Guided Missile Destroyer Total	1	I		
		■ LCS Littoral Combat Ship	⊕LCS3	FORT VORTH	\rightarrow	_
		LCS Littoral Combat Ship Total	□ LCS 4	CORONADO	\rightarrow	_
		LIKTORAL COMDAT Ship Total LIKA Amphibious Assault Ship (General Purpose)	Louise	AMEDICA	-	_
		LHA Amphibious Assault Ship (General Purpose) LHA Amphibious Assault Ship (General Purpose) Total	BLHA6	AMERICA	_	_
		LPD Amphibious Transport Dock	□ LPD 23	ANCHORAGE	\rightarrow	
		C C C Amphiblogs Hallsport Dock	■ LPD 23 ■ LPD 24	ARLINGTON	\rightarrow	_
			■ LPD 24 ■ LPD 25	SOMERSET	_	_
		LPD Amphibious Transport Dock Total	- LFD 20	JOURIETIDE	-+	_
	1			T	-	_
	1	I = SSN Submarine (Nuclear-Powered)				
		SSN Submarine (Nuclear-Powered)	■ SSN 782 ■ SSN 783	MISSISSIPPI MINNESOTA	-+	—

The QuikLook pivot tables

As the name implies, these pivot tables are intended for quick, immediate display of fleet compositions and ship counts according to two standard classification and counting systems:

- 1. The system defined in SECNAV's 5030.8A Instruction on vessel classification and Battleforce ship counting [26], and
- 2. The system formerly used by NVR to classify ships into forces.⁵

SECNAVINST 5030.8A on Vessel Classification and Battleforce Ship Counting. In the last update [24], we modified the database to account for the system defined in the SECNAV Instruction 5030.8A.

Figure 27 illustrates the general organization of the 5030.8A system and also the specific example of the scheme applied to Navy surface combatants.

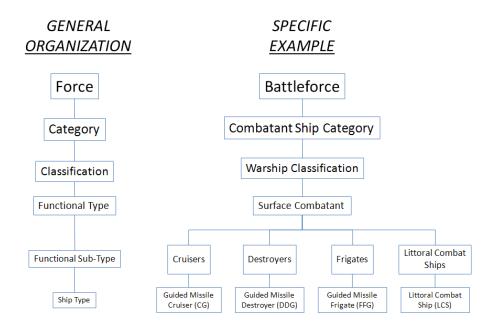
At the top level of organization, i.e. the Force level, 5030.8A identifies two Forces: Battleforce and Non-Battleforce. The instruction then specifies a sequence of increasing specificity down to the lowest level, that of ship-type.

The instruction explicitly defines "Categories" and "Classifications." In our example, The Category is the Combatant Ship Category and the Classification is the Warship Classification.

The 5030.8A instruction does not explicitly label the next two levels, So we refer to them as "Functional Type" and "Sub-Functional Type," respectively. In the example, Surface Combatant is the Functional Type. The Functional Sub-Types included, Cruisers, Destroyers, Frigates, and Littoral Combat Ships.

^{5.} NVR is in transition from its former system to that of the SECNAV instruction. The current NVR system is actually a hybrid of the two systems.

Figure 27. General 5030.8A organization with an example



Specific Ship Types are Guided Missile Cruisers (CGs), Guided Missile Destroyers (DDGs), Guided Missile Frigates (FFGs), and Littoral Combat Ships (LCSs).

In figure 28, we show the composition of the Battleforce in terms of the 5030.8A ship categories, classifications, and types. Likewise, figure 29 shows the organization of the Non-Battleforce.

The colored boxes at the bottom of these figures indicate the respective custodians of the ships. Blue designates U.S. Navy. Gray depicts MSC. Green accounts for the ships under MSC custody, but crewed by hybrid of Navy military personnel and MSC civilians.

To accommodate the 5030.8A information, we added four fields:

• Column K: 5030.8A Force

• Column L: 5030.8A Ship Category

• Column M: 5030.8A Ship Classification

• Column N: 5030.8A Ship Type

Figure 28. Composition of the 5030.8A Battleforce

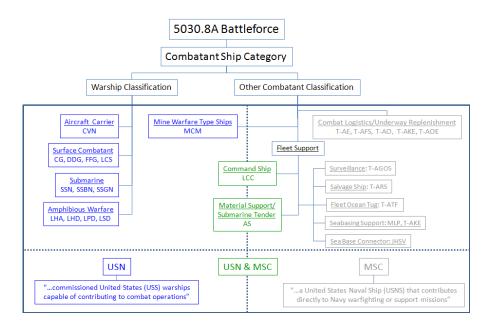
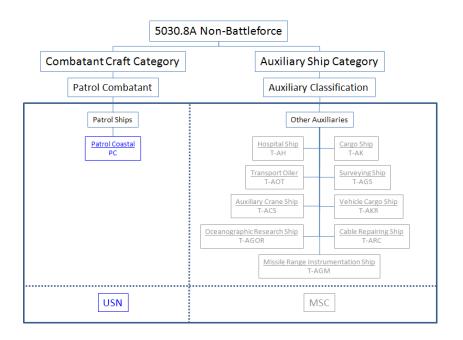


Figure 29. Composition of the 5030.8A Non-Battleforce



To populate these fields, we first used the SECNAV instruction as a guide. Then we confirmed our assignments using the Navy Ship Annual Supplemental Data Table (SASDT) in the President's Budget submittal for Fiscal Year 2012 [47].

After populating the data worksheet, we built two QuikLook pivot tables: QuikLook_5030.8A Battleforce and QuikLook_5030.8A NonBattleforce.

Figure 30 shows the compressed display of *QuikLook_5030.8A Battle-force* available when the tab is first opened. You can see the total count of ships in the Battleforce, as well as the makeup by 5030.8A categories, classifications, and types.

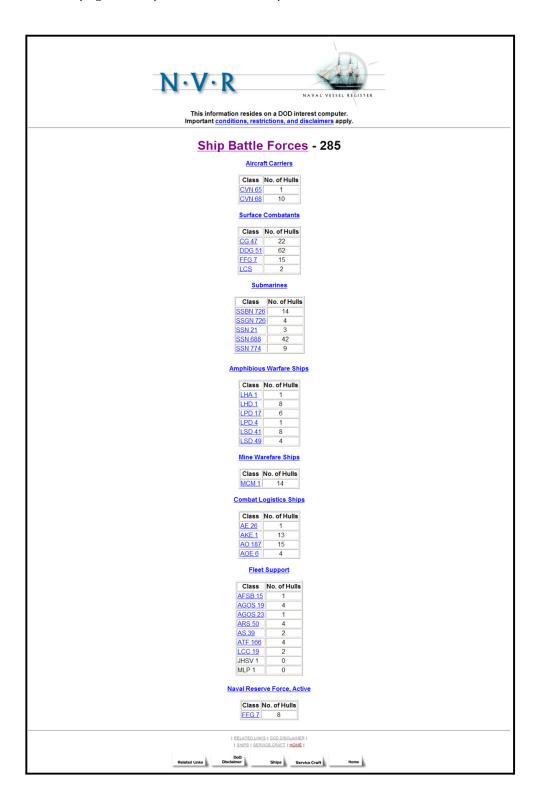
Cell D1 contains a link to the NVR's current count of the Ship Battle Forces for quick reference (See figure 31).

If you expand the entire 5030.8A Ship Category field in column A (using the same steps we discussed above for *Basic PivotTable*) and show individual ship names and hull numbers, you will see the complete composition of the Battleforce as in figure 32.

Figures 33 and 34 are similar views for the Non-Battleforce ships.

A	В	С	D E I	F G
Return to The				
Directory			FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE	
Directory				
0 1 (0): 11				
Count of Ship Name 5030 8A Force	■ 5030.8A Ship Category -■	5030.8A Ship Classification	- 5030.8A Ship Type	ame -1 Tota
⊕ Battleforce		Warship/Aircraft Carrier	© Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)	ame 100
Battleforce	⊕ Compatant Snip	Warship/Aircraft Carrier Warship/Aircraft Carrier Total	⊎ Conventional Lake Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)	1
			Cruisers/Guided Missile Cruiser	2
-				- 6
			Destroyers/Guided Missile Destroyer	
			Frigates/Guided Missile Frigate	2
			⊕ Littoral Combat Ship/Littoral Combat Ship	
		Warship/Surface Combatant Total		11
			Attack Submarines/Submarine (nuclear-powered)	
			Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)	1
			Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)	
		Warship/Submarine Total		
		Warship/Amphibious Warfare	Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)	-
			Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)	
			Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock	
			⊕ Landing Craft Carriers/Dock Landing Ship	
		Warship/Amphibious Warfare Total		
		⊕ Other Combatant/Combat Logistics	⊕ Underway Replenishment//Fast Combat Support Ship	
			⊕ Underway Replenishment/Ammunition Ship	
			⊚ Underway Replenishment/Dry Cargo and Ammunition Ship	
			Underway Replenishment/Oiler	
	Combatant Ship Total	Other Combatant/Combat Logistics Total		
		Other Combatant/Fleet Support	⊕ Command/Command Ship	
			Material Support/Submarine Tender	
			Salvage Ships/Salvage Ships	
			Surveillance/Surveillance	
		Other Combatant/Fleet Support Total		1
		⊕ Other Combatant/Mine Warfare Type Ships	Mine Countermeasures Ships/Mine Countermeasures Ship	
		Other Combatant/Mine Warfare Type Ships Total	•	-
	Combatant Ship Total	,		28
Grand Total				2
◆ ▶ I The Docum	ent / The Directory /	DataTableOriginal Dec11 / DataTableCopy	Basic PivotTable QuikLook 5030.8A Battleforce QuikLook 5030.8A NonBattleforce QuikLook ↓	

Figure 31. NVR page on Ship Battle Forces composition



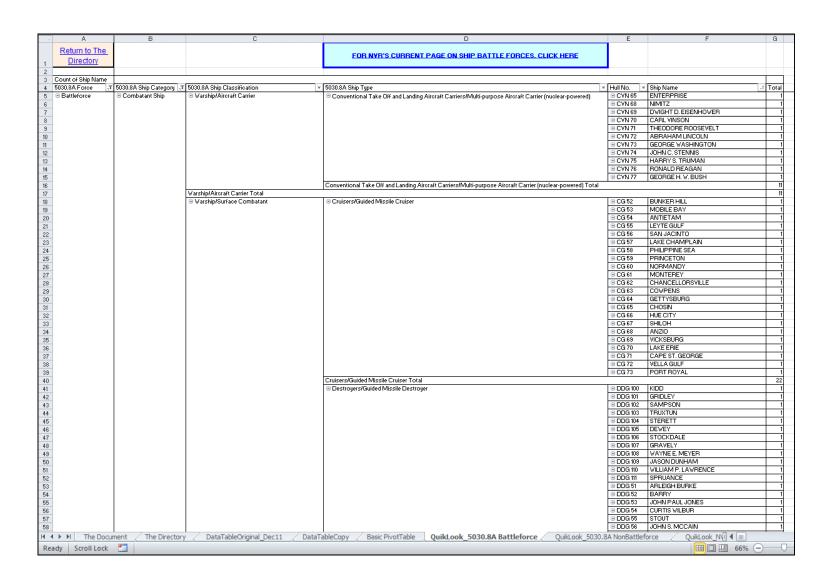


Figure 33. Compressed view of QuikLook_5030.8A NonBattleforce

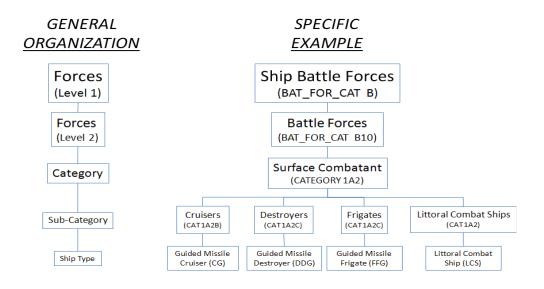
A	В	С	D	E	F	G			
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Count of Ship Name		700.00	200	2000					
5030.8A Force	■ 5030.8A Ship Category	■ 5030.8A Ship Classification	▼ 5030.8A Ship Type	T Hull No.(NVR L T	Ship Name	1 Total			
■ Non-Battleforce	□ Combatant Craft	Combatant Craft Patrol Combatant Patrol Ships/Patrol Coastal							
	Combatant Craft Total	16	60			13			
	Auxiliary Ship	⊕ Auxiliary/Support Type Ship	Auxiliary/Support Type Ship						
	300000000000000000000000000000000000000		■ Other Auxiliaries/Cargo Ship	⊕ Other Auxiliaries/Cargo Ship					
			Other Auxiliaries/Hospital Ship			2			
			● Other Auxiliaries/Missile Range Instrumentation S	hip		1			
						19			
			Other Auxiliaries/Transport Oiler Other Auxiliaries/Surveying Ship			1			
						7			
	Auxiliary Ship Total	Auxiliary Ship Total							
Grand Total					55	55			
◆ ▶ ► DataTableOrio	ginal Dec11 / DataTableCopy	Basic PivotTable QuikLook	5030.8A Battleforce QuikLook 5030.8A		ikLook_NVR Shi				

A	В	С	D	E	F	G
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	<u>or y</u>					
Count of Ship Name 5030.8A Force	₹ 5030.8A Ship Category	₹ 5030.8A Ship Classification	▼ 5030.8A Ship Tupe	- Hull No.(NVF - Sh	oin Name	Total
■ Non-Battleforce	□ Combatant Craft	■ Patrol Combatant	■ Patrol Ships/Patrol Coastal		MPEST	1
@ Non-Battleroice	Combatant Craft	er actor combacanc	er attoronipsir attorocoastar	⊕PC3 H	JRRICANE	- 1
-				9 FC 3	ONICON	
				■ PC 4 M	ONSOON	
					/PHOON	1
				□ PC6 SI	ROCCO	1
				■PC7 S0	QUALL	1
				■PC8 ZE	PHYR	1
				■PC9 CI	HINOOK	1
				■ PC 10 FI	REBOLT	1
					HIRLWIND	- 1
					HUNDERBOLT	
						- !!
					HAMAL	1 1
				⊕ PC 14 T0	DRNADO	1
			Patrol Ships/Patrol Coastal Total			13
	Combatant Craft Total					13
	■ Auxiliary Ship	■ Auxiliary/Support Type Ship	Other Auxiliaries/Cable Repairing Ship	■ T-ARC 7 ZE	EUS	1
	1 '	1 , , , , , , , , , , , ,	Other Auxiliaries/Cable Repairing Ship Total			1
	1		Other Auxiliaries/Cargo Ship	■ T-AK 3005 S0	GT MATEJ KOCAK	1
	1		and r rammane storage only		FC EUGENE A. OBREGON	1
	1			□ T AV 2007 A4	AJ, STEPHEN W, PLESS	
	1					
	1				JD LT. JOHN P. BOBO	- !
	1				FC DEWAYNE T. VILLIAMS	1
	1		1		<u>T LT. BALDOMERO LOPEZ</u>	1
				■ T-AK 3011 1S	TITJACKIUMMUS	1
				■ T-AK 3012 S0	ST VILLIAM R. BUTTON	1
					T LT HARRY L. MARTIN	1
					PL BOY M. WHEAT	1
					YSGT FRED W. STOCKHAM	
			Other Assiliation (Corner Chie Total	= I-AK 30Ir G	ISGI FRED W.STOCKHAM	11
			Other Auxiliaries/Cargo Ship Total	Law sure las	EDOU	- "
			■ Other Auxiliaries/Hospital Ship		ERCY	1 1
				☐ T-AH 20 C	DMFORT	1
			Other Auxiliaries/Hospital Ship Total			2
			Other Auxiliaries/Missile Range Instrumentation	on Shil 🖪 T-AGM 23 OI	BSERVATION ISLAND	1
			Other Auxiliaries/Missile Range Instrumentation	Ship Total		1
			■ Other Auxiliaries/Vehicle Cargo Ship	■ T-AKR 295 SH	HIGHART	1
				■ T-AKR 296 Gr	DROON	1
				■ T-AKR 297 Y/	SNO	
						- !!
				■ T-AKR 298 GI	LLILAND	
				■ T-AKR 300 Bt	JB HOPE	1 1
				☐ T-AKR 301 FI	SHER	1
				■ T-AKR 302 SE	EAY	1
				■ T-AKR 303 M	ENDONCA	1
	1			■ T-AKR 304 PI	LILAAU	1
	1			■ T-AKR 305 BI		1
	1		1	■ T-AKR 306 BI		1
	1					
	1			■ T-AKR 310 W	MIOUN CLED	
	1		1	■ T-AKR 311 SI	SLEM	1 1
	1			■ T-AKR 312 D.	AHL	1
	1		1	■ T-AKR 313 RI	ED CLOUD	1
	1		1	■ T-AKR 314 CI	HARLTON	1
	1			■ T-AKR 315 W.	ATKINS	1
	1			■ T-AKR 316 Pt	DMEROY	1
	1		1	■ T-AKR 317 S0	DERMAN	1
	1		Other Auniliaries/Vehicle Cares Shir Takal	I - I-VIVITAIL 190	2001 H21019	19
	1		Other Auxiliaries/Vehicle Cargo Ship Total	LET ACTION II	SUPERIOR LL CLANEUL *	13
	1		☐ Other Auxiliaries/Transport Oiler] □ 1-AUT 1125 [LA	AVRENCE H. GIANELLA	- !!
	1		Other Auxiliaries/Transport Oiler Total			1 1
	1		 Other Auxiliaries/Surveying Ship 	■ T-AGS 45 W.	ATERS	1
	1			■ T-AGS 60 P	ATHFINDER	1
	1		1	■ T-AGS 61 SU	JMNER	1
	1				DVDITCH	1
	1				ENSON	1 1
	1					
	1		1		RUCE C. HEEZEN	1 1
	1			■ T-AGS 65 M	ARY SEARS	1
			Other Auxiliaries/Surveying Ship Total			7
	Auxiliary Ship Total					42
Grand Total						55

The Former NVR classification and counting system. The former NVR system of organization and counting is much like the system previously used in the Navy Budget. (For example, see [48].) In figure 35, we show the general scheme of organization. The term, "Forces," is used at two different levels in this system. For the sake of distinguishing them, we label them as "Level 1" and "Level 2" respectively.

In figure 35, we present the case of surface combatants as a specific example. In the example here, we've annotated the boxes with the associated Battle Force Categories (BAT_FOR_CATs) and Budget Categories to show the linkages to the old budget system.

Figure 35. Former NVR system: General organization with an example



In figures 36 and 37, we show the composition of the two Level-1 Forces: the Ship Battle Forces, and the Local Defense and Miscellaneous Support Forces.

Figure 36. Composition of NVR Ship Battle Forces

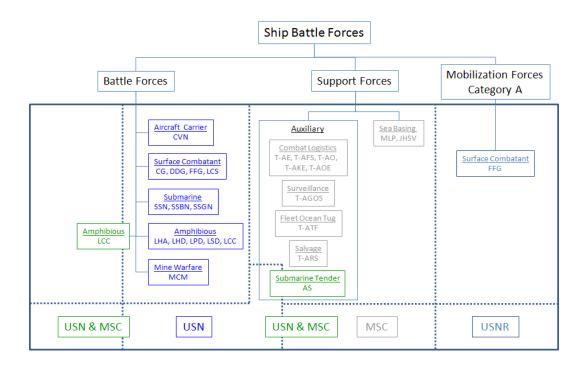
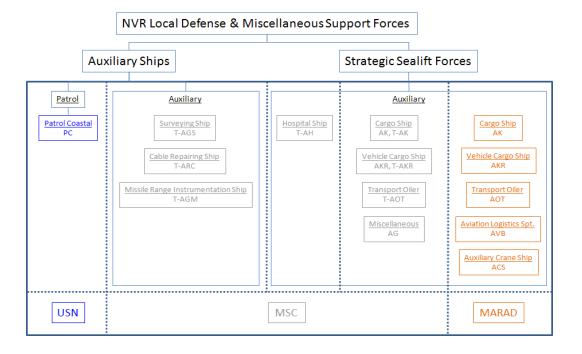


Figure 37. Composition of NVR Local Defense and Miscellaneous Support Forces



The two QuikLook pivot tables for the former NVR scheme of organization are:

- QuikLook_NVR Ship Battle Forces
- QuikLook_NVRLocDef&MiscSptForces

Figures 38 displays the initial, compressed view of *QuikLook_NVR Ship Battle Forces*. The grouping progresses from NVR Force – Level 2, through the NVR Status Categories and Status designations, the NVR Ship Type, to the individual Ship Names and Hull Numbers.

Figure 39 shows a fully expanded view that reveals the individual ships comprising the various levels of organization.

In like manner, figures 40 and 41 show the respective views of *Quiklook_NVRLocDef&MiscSptForces*.

A	В	C	D	E	F	
Return to The Direct	ory	FOR NYR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE				
	<u> </u>					
Count of Ship Name						+
NVR Force	Status Group	Status	NVR Type	Hull No. (NVP	Ship Name	To
141111 0100	T Status Group	- Courted	Town 1 gpc	Link)	omp rounte	۱, II.
■ Battle Force		■ Active, in commission	■ CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsi)	oni		\top
			■ CG Guided Missile Cruiser			\top
			■ DDG Guided Missile Destroyer			Т
			● FFG Guided Missile Frigate			\top
			■ LCC Amphibious Command Ship			Т
			■ LCS Littoral Combat Ship			Т
			■ LHA Amphibious Assault Ship (General Purpose)			т
			■ LHD Amphibious Assault Ship (Multi-Purpose)			\top
			■ LPD Amphibious Transport Dock			\top
			■ LSD Dock Landing Ship			\top
			■ MCM Mine Countermeasures Ship			\perp
			 SSBN Ballistic Missile Submarine (Nuclear-Powered) 			
			SSGN Guided Missile Submarine (Nuclear-Powered)			\perp
			■ SSN Submarine (Nuclear-Powered)			
		Active, in commission Total				\perp
		■ Active, In service	■ LPD Amphibious Transport Dock			_
		Active, In service Total				_
		■ Active, in commission / Military Sealift Command (MSC), Special Mission Support	■ LCC Amphibious Command Ship			_
		Active, in commission / Military Sealift Command (MSC), Special Mission Support Total				+
	■ Military Sealift Command, Naval Fleet Auxiliary Force	■ Military Sealift Command (MSC) Naval Fleet Auxiliary Force	■ T-AE Ammunition Ship			+
			● T-AO Oiler			+
			■ T-AOE Fast Combat Support Ship			_
			■ T-AKE Dry Cargo and Ammunition Ship			4
		Military Sealift Command (MSC) Naval Fleet Auxiliary Force Total	T			+
		■ Military Sealift Command (MSC), In Service/Naval Fleet Auxiliary Force	T-AKE Dry Cargo and Ammunition Ship			+
		Military Sealift Command (MSC), In Service/Naval Fleet Auxiliary Force Total	I			+
■ Mobilization Cat. A	■ Naval Reserve Force, Active	■ Naval Reserve Force, Active	● FFG Guided Missile Frigate			+
		Naval Reserve Force, Active Total	Total to Total			+
Support Force	■ Active	■ Active, in commission / Military Sealift Command (MSC), Special Mission Support	AS Submarine Tender			+
	C. 1. 17. 0	Active, in commission / Military Sealift Command (MSC), Special Mission Support Total	T ADO O-1 OLI-			+
	■ Military Sealift Command, Naval Fleet Auxiliary Force	■ Military Sealift Command (MSC) Naval Fleet Auxiliary Force	T-ARS Salvage Ship T-ATF Fleet Ocean Tug			+
		Military Sealift Command (MSC) Naval Fleet Auxiliary Force Total	□ 1-ATF Fleet Ocean Tuq			+
	■ Military Sealift Command, Special Mission Support	Military Sealift Command (MSC), Special Mission Support	T-AGOS Ocean Surveillance Ship			+
	in Willitary Sealift Command, Special Wission Support	Military Sealift Command (MSC), Special Mission Support Total	■ 1-AGUS Ocean Surveillance Ship			+
Grand Total		[Millitary Sealift Confinanty [MSC], Special Mission Support Total				+
aranu r Uldi						+

Figure 39. Top portion of the fully expanded view of *QuikLook_NVR Ship Battle Forces*

	A	В	С	D	E	F		G
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Ĕ								
N	ount of Ship Name VR Force	Status Group	Status	NVR Type	Hull No. (NVP	Ship Name	_ 1	Tota
8	Battle Force	■ Active	☐ Active, in commission ☐	□ CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	■ CVN 65	ENTERPRISE		
					□ CVN 68 □ CVN 69	NIMITZ DVIGHT D. EISENHOVER	\dashv	\vdash
					□ CVN 70	CARL VINSON	\neg	Н
					□ CVN 71	THEODORE ROOSEVELT		
					□ CVN 72	ABRAHAM LINCOLN	\rightarrow	L
						GEORGE WASHINGTON JOHN C. STENNIS	\dashv	Н
						HARRYS, TRUMAN	\neg	Н
					□ CVN 76	RONALD REAGAN		
				CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	■ CVN 77	GEORGE H. W. BUSH	\dashv	H
				Total				
				☐ CG Guided Missile Cruiser ☐ CG Guided Missile Cruiser		BUNKER HILL		E
					■ CG 53	MOBILE BAY	_	Ľ
						ANTIETAM LEYTE GULF	\dashv	H
					■ CG 56	SANJACINTO	\dashv	H
					■ CG 57	LAKE CHAMPLAIN		
						PHILIPPINE SEA	-	L
					□ CG 59□ CG 60	PRINCETON NORMANDY	\dashv	H
					■ CG 61	MONTEREY	\dashv	H
					■ CG 62	CHANCELLORSVILLE		t
					■ CG 63	COVPENS	\Box	
					□ CG 64	GETTYSBURG	\rightarrow	L
					□ CG 65□ CG 66	CHOSIN HUE CITY	\dashv	H
					□ CG 67	SHILOH	\neg	Н
					□ CG 68	ANZIO		
					⊕ CG 69	VICKSBURG	\dashv	L
					□ CG 70□ CG 71	LAKE ERIE CAPE ST. GEORGE	\dashv	H
					□ CG 72	VELLA GULF	\neg	Н
					■ CG 73	PORT ROYAL		
				CG Guided Missile Cruiser Total		Lunn	-	L
				■ DDG Guided Missile Destroyer	 □ DDG 100 □ DDG 101 	KIDD GRIDLEY	\dashv	H
					■ DDG 102	SAMPSON	\neg	H
					■ DDG 103	TRUXTUN		
					■ DDG 104	STERETT	_	L
						DEWEY STOCKDALE	\dashv	H
						GRAVELY		t
					■ DDG 108	WAYNE E. MEYER		
					■ DDG 109	JASON DUNHAM	1	Ľ
					 □ DDG 110 □ DDG 111 	VILLIAM P. LAVRENCE SPRUANCE	\dashv	\vdash
					■ DDG 51	ARLEIGH BURKE	\dashv	Н
					■ DDG 52	BARRY		Г
					■ DDG 53	JOHN PAUL JONES	-	H
					 □ DDG 54 □ DDG 55 	CURTIS VILBUR STOUT	\dashv	Н
					DDG 56	JOHN S. MCCAIN	\dashv	Н
					■ DDG 57	MITSCHER		
					■ DDG 58	LABOON	_	L
					 □ DDG 59 □ DDG 60 	RUSSELL PAUL HAMILTON	\dashv	Н
					■ DDG 61	RAMAGE	\dashv	H
					■ DDG 62	FITZGERALD		
					■ DDG 63	STETHEM	\Box	Ľ
					 □ DDG 64 □ DDG 65 	CARNEY BENFOLD	\dashv	\vdash
			1	i .	- DDG 60	LOCIAL OFF	\rightarrow	\vdash

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Count of S	hip Name		•					
		Status Group	<u> </u>	NVR Tupe	Hull No.	Ship Name 🛫	, To	
	MVH Force -T	Status Group	▼ Status ▼		(NVB Lint -1	Ship Name -	-1	
∃ Auxiliary		■ Active	■ Active, in commission	● PC Patrol Coastal				
			Active, in commission Total					
	Strategio Sealift S S	■ Military Sealift Command, Special Mission Support	■ Military Sealift Command (MSC), Special Mission Support ■ T-AGS Surveying Ship				\perp	
				■ T-ARC Cable Repairing Ship			\bot	
				T-AGM Missile Range Instrumentation Shi	p		_	
			Military Sealift Command (MSC), Special Mission Support Total				_	
Strategi	: Sealift	■ Special, Miscellaneous	 Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. 	AK Cargo Ship				
			{Prepositioning Program}				_	
				AG Miscellaneous			+	
			Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces.					
			{Prepositioning Program} Total	I			+	
		© Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. {Sealift @ AK Cargo Ship						
			Program)					
		Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift						
			Program} Total				+	
		 Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as 	AVB Aviation Logistic Support Ship			- 1		
			part of the U.S. Navy Ship Forces. Prepositioning Program				_	
			Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as				- 1	
			part of the U.S. Navy Ship Forces. Prepositioning Program Total	T			+	
			 Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as 	ACS Auxiliary Crane Ship				
			part of the U.S. Navy Ship Forces. (Sealift Program)				+	
				AK Cargo Ship			+	
				AKR Vehicle Cargo Ship			_	
				AOT Transport Oiler			+	
			Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Sealift Program) Total					
		■ Military Sealift Command, Naval Fleet Auxiliary Force	Military Sealift Command (MSC) Naval Fleet Auxiliary Force	⊕ T-AH Hospital Ship			+	
		Military Sealist Command, Navar Fleet Adxillary Force	Military Sealift Command (MSC) Naval Fleet Auxiliary Force Total	□ I-Am mospital only			+	
		■ Military Sealift Command, Contract Operated	Military Sealift Command (MSC), in service, contract operated (Prepositioning)	⊕ T-AK Cargo Ship			+	
1		B Military Sealin Continuity, Contract Operated	a initially sealing continuation (initially initially contract operated in repositioning	T-AK Cargo Ship			+	
				T-AOT Transport Oiler			+	
1			Military Sealift Command (MSC), in service, contract operated (Prepositioning Program)	1 THOT THAISPORTSICE			+	
			Total					
			Military Sealift Command (MSC), in service, contract operated (Sealift Program)	⊕ T-AKR Vehicle Cargo Ship			+	
1			Military Sealift Command (MSC), in service, contract operated (Sealift Program) Total	, =			\top	
		□ Disposed	Disposed of by Navy title transfer to the Maritime Administration	AOT Transport Oiler			\top	
			Disposed of by Navy title transfer to the Maritime Administration Total				\top	
Grand Tota	ı						\top	
			030,8A NonBattleforce OuikLook NVR Ship Battle Forces OuikLoo	k NVRLocDef&MiscSptForce Sh	ip-Age Pivot			

Figure 41. Top portion of the fully expanded *QuikLook_NVRLocDef&MiscSptForces*

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Count of Ship Name				_	- Holl No.	_	Tota
NVR Force		▼ :	Status	NVR Type		Ship Name 🚚	1100
■ Auxiliary	■ Active		Active, in commission	■ PC Patrol Coastal	■ PC 10	FIREBOLT	
							+-
							+
							_
					■ PC 2	TEMPEST	
	Second S						
				+			
						+	
				DO DO LO COLUMNIA	⊕PC9	CHINOOK	+
		ŀ	Active in commission Total	JPC Patrol Coastal Total			+
	■ Military Sealift Command, Specia			☐ T-AGS Surveying Ship	■ T-AGS 45	WATERS	\top
				1	■ T-AGS 60	PATHFINDER	
A					☐ T-AGS 61	SUMNER	+
					■ 1-AGS 62	HENSON	+
					■ T-AGS 64	BRUCE C. HEEZEN	$^{+}$
					■ T-AGS 65	MARYSEARS	
					I T ADC 7	Tartie	+
a de la companya de					T⊕ T-ARC /	12EUS	+
				■ T-AGM Missile Range Instrumentation Ship	■ T-AGM 23	OBSERVATION ISLAND	1
				-			
		-	100 0 00 0 1000 0 1000 0 1000 0	T-AGM Missile Range Instrumentation Ship Tota	l .		_
Strategic Spalift	Special Miscellaneous		Military Sealift Command (MSC), Special Mission Support Total Special chartered by MSC disted here as part of the U.S. Navy Ship Forces	□ AV Cargo Ship	□ 0K 4543	TUTC JOHNIUD PAGE	+
B Strategic Sealin	a special, ivilscellarieous			MK Calgo onip	□ MK 4040	ETC SOMINO. B. FAGE	
					■ AK 4296	CAPT. STEVEN L. BENNETT	
							_
					■ AK 4396	MAJ. BERNARD F. FISHER	
							+-
					□ OK 4544	SSGEDWARD & CARTER JR	
				AK Cargo Ship Total	■ AK 4544	SSG EDVARD A. CARTER, JR.	+
				■ AG Miscellaneous			
-				■ AG Miscellaneous			
				■ AG Miscellaneous			
			{Prepositioning Program} Total	AG Miscellaneous AG Miscellaneous Total	■ AG 5001	VADMIK, R. WHEELER	
			Prepositioning Program} Total ■ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift	AG Miscellaneous AG Miscellaneous Total	■ AG 5001	VADM K. R. WHEELER	
			Prepositioning Program} Total ☐ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. {Sealift Program}	AG Miscellaneous AG Miscellaneous Total AK Cargo Ship	■ AG 5001	VADM K. R. WHEELER	
		<u>-</u>	Prepositioning Program} Total ☐ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Seallit Program}	AG Miscellaneous AG Miscellaneous Total AK Cargo Ship	■ AG 5001	VADM K. R. WHEELER	
		-	Prepositioning Program Total Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces, [Seallit Program] Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces, [Seallit Program]	AG Miscellaneous AG Miscellaneous Total AK Cargo Ship	■ AG 5001	VADM K. R. WHEELER	
			Prepositioning Program Total Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Seallit Program Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Seallit Program Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Seallit Program Total Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as	AG Miscellaneous AG Miscellaneous Total AK Cargo Ship AK Cargo Ship Total	■ AG 5001 ■ AK 5158 ■ AK 9205	VADMIK.R. WHEELER MOHEGAN VIRGINIAN	
			Prepositioning Program Total Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Seallit Program Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Seallit Program Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Seallit Program Total Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as	■ AG Miscellaneous AG Miscellaneous Total ■ AK Cargo Ship AK Cargo Ship Total ■ AVB Aviation Logistic Support Ship	■ AG 5001 ■ AK 5158 ■ AK 9205	VADMK.R. WHEELER MOHEGAN VIRGINIAN	
		: :	Prepositioning Program\ Total Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Total Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\	■ AG Miscellaneous AG Miscellaneous Total ■ AK Cargo Ship AK Cargo Ship Total ■ AVB Aviation Logistic Support Ship	AG 5001 AK 5158 AK 9205 AVB 3	VADMK.R. WHEELER MOHEGAN VIRGINIAN	
		- - - -	Prepositioning Program\ Total Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Seallit Program\ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Seallit Program\ Total Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as	■ AG Miscellaneous AG Miscellaneous Total ■ AK Cargo Ship AK Cargo Ship Total ■ AVB Aviation Logistic Support Ship	AG 5001 AK 5158 AK 9205 AVB 3	VADMK.R. WHEELER MOHEGAN VIRGINIAN	
			Prepositioning Program\ Total Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Total Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as	□ AG Miscellaneous AG Miscellaneous Total □ AK Cargo Ship □ AK Cargo Ship Total □ AVB Aviation Logistic Support Ship □ AVB Aviation Logistic Support Ship Total	□ AK 5158 □ AK 9205 □ AVB 3 □ AVB 4	VADMK.R. WHEELER MOHEGAN VIRGINIAN WRIGHT CURTISS	
			Prepositioning Program\ Total Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Total Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as	□ AG Miscellaneous AG Miscellaneous Total □ AK Cargo Ship □ AK Cargo Ship Total □ AVB Aviation Logistic Support Ship □ AVB Aviation Logistic Support Ship Total	□ AG 5001 □ AK 5158 □ AK 9205 □ AVB 3 □ AVB 4 □ ACS 1	WADMK.R. WHEELER MOHEGAN VIRIGINIAN WRIGHT CURTISS KEYSTONE STATE GEMSTATE	
			Prepositioning Program\ Total Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Total Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as	□ AG Miscellaneous AG Miscellaneous Total □ AK Cargo Ship □ AK Cargo Ship Total □ AVB Aviation Logistic Support Ship □ AVB Aviation Logistic Support Ship Total	□ AG 5001 □ AK 5158 □ AK 9205 □ AVB 3 □ AVB 4 □ ACS 1 □ ACS 2 □ ACS 3	WADMIK R. WHEELER MOHEGAN VIRGINIAN WRIGHT CURTISS KEYSTONE STATE GEMISTATE GRAND CANYON STATE	
			Prepositioning Program\ Total Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Total Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as	□ AG Miscellaneous AG Miscellaneous Total □ AK Cargo Ship □ AK Cargo Ship Total □ AVB Aviation Logistic Support Ship □ AVB Aviation Logistic Support Ship Total		WADM K. R. WHEELER MOHEGAN WRIGHT CURTISS KEYSTONE STATE GEM STATE GRAND CANYON STATE GOPHER STATE	
			Prepositioning Program\ Total Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Total Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as	□ AG Miscellaneous AG Miscellaneous Total □ AK Cargo Ship □ AK Cargo Ship Total □ AVB Aviation Logistic Support Ship □ AVB Aviation Logistic Support Ship Total	□ AG 5001 □ AK 5158 □ AK 9205 □ AVB 3 □ AVB 4 □ ACS 1 □ ACS 2 □ ACS 3 □ ACS 4 □ ACS 5	WADMK.R. WHEELER MOHEGAN VIRGINIAN WRIGHT CURTISS KEYSTONE STATE GEMISTATE GRAND CANYON STATE GOPHER STATE GUCKETSTATE FUCKERTALL STATE	
			Prepositioning Program\ Total Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Total Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as	AG Miscellaneous AG Miscellaneous Total AK Cargo Ship AK Cargo Ship Total AVB Aviation Logistic Support Ship AVB Aviation Logistic Support Ship Total ACS Auxiliary Crane Ship		WADM K. R. WHEELER MOHEGAN WRIGHT CURTISS KEYSTONE STATE GEM STATE GRAND CANYON STATE GOPHER STATE	
			Prepositioning Program\ Total Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. Sealift Program\ Total Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. Prepositioning Program\ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as	□ AG Miscellaneous AG Miscellaneous Total □ AK Cargo Ship □ AK Cargo Ship Total □ AVB Aviation Logistic Support Ship □ AVB Aviation Logistic Support Ship Total	□ AG 5001 □ AK 5158 □ AK 5205 □ AVB 3 □ AVB 4 □ ACS 1 □ ACS 2 □ ACS 4 □ ACS 6 □ ACS 6 □ ACS 6	WADMIK R. WHEELER MOHEGAN WRIGHT CURTISS KEYSTONE STATE GEM STATE GRAND CANYON STATE GOPHER STATE FLICKERTALL STATE CORNINUSKER STATE CORNINUSKER STATE	
:			Prepositioning Program\ Total	AG Miscellaneous AG Miscellaneous Total AK Cargo Ship AK Cargo Ship Total AVB Aviation Logistic Support Ship AVB Aviation Logistic Support Ship Total ACS Auxiliary Crane Ship ACS Auxiliary Crane Ship Total	□ AG 5001 □ AK 5158 □ AK 9205 □ AVB 3 □ AVB 4 □ ACS 1 □ ACS 2 □ ACS 3 □ ACS 4 □ ACS 5 □ ACS 6	WADMK.R. WHEELER MOHEGAN VIRGINIAN WRIGHT CURTISS KEYSTONE STATE GEM STATE GEAND CANYON STATE GOPHER STATE FLICKERTALL STATE CORNHUSKER STATE	

Ship-Age PivotTable

In the section on "Changes in this update," we discussed the addition of the *Ship-Age PivotTable* and the associated changes in *DataTableOriginal_Dec11* including the methodologies for calculating ship age. We will not repeat that presentation here.

Instead, we focus on the information presented in the pivot table. In figure 42, we show the opening view of *Ship-Age PivotTable*. The table shows age statistics according to the organizing scheme of the 5030.8A Instruction. Specifically, you can see the statistics down to the grouping of 5030.8A Ship Type.

The fields in the Data section of the table include four statistics

- *Count of Age*, i.e., the number of ships in the group
- *Average of Age* for ships in the group
- Max of Age, i.e., the age of the oldest ship in the group
- *Min of Age*, i.e., the age of the newest ship in the group

In figure 43, we show the top portion of the fully expanded *Ship-Age Table*. This view shows the individual ships in the group along with their respective dates of commission. Subtotals for the groups are shown as well.

So for example, there are 11 Navy aircraft carriers currently in the Battleforce. They are 24.1 years old on average. The oldest is USS *Enterprise* (CVN 65) at 50.7 years. And the newest is USS *George H.W. Bush* (CVN 77) at 3.2 years.

Figure 42. Initial view of Ship-Age PivotTable

A	В	С	D	E	F	G	Н	The state of the s	J	K
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			77				Data		_	
5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No. 1	. Ship Name	Commission Date		Average of Age	May of Ago	Min of A
3030.6A FOICE	T 0000.0A Ship Category	SOSO,OM Ship Classification	ooso.on only type	(NVB Link)	→1 Only realite	+ Commission Date	- Count or Age	Average or Age	Ivian or Age	IVIIII OI A
■ Battleforce	■ Combatant Ship	■ Warship/Aircraft Carrier	■ Conventional Take Off and Landing Aircraft Carriers/Multi-	,			11	24.1	50.7	3.2
			purpose Aircraft Carrier (nuclear-powered)	-				700 to to		
		Warship/Aircraft Carrier Total		4			11	24.1	50.7	3.2
		■ Warship/Surface Combatant	Cruisers/Guided Missile Cruiser				22	22.2	26.0	18.2
			Destroyers/Guided Missile Destroyer	4			61	11.5	21.2	1.2
			● Frigates/Guided Missile Frigate				26	27.8	30.4	23.0
			■ Littoral Combat Ship/Littoral Combat Ship	4			2	3.2	3.8	2.6
		Warship/Surface Combatant Total		-			111	17.3	30.4	1.2
		■ Warship/Submarine	■ Attack Submarines/Submarine (nuclear-powered)				53	19.9	31.4	0.9
			 Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered) 				14	21.6	27.8	14.9
			 Guided Missile Submarines/Guided Missile Submarine (nuclear powered) 				4	29.6	30.7	28.5
		Warship/Submarine Total					71	20.8	31.4	0.9
		■ WarshipłAmphibious Warfare	 Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose) 				1	32.3	32.3	32.3
			Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)				8	15.4	23.2	3.2
			 Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock 				8	13.7	43.7	0.6
			Landing Craft Carriers/Dock Landing Ship				12	21.1	27.5	14.4
		Warship/Amphibious Warfare Total					29	17.9	43.7	0.6
		■ Other Combatant/Combat Logistics	■ Underway Replenishment/Dry Cargo and Ammunition Ship				12	3.5	6.1	0.8
			■ Underway Replenishment//Fast Combat Support Ship				4	16.9	18.4	14.3
			■ Underway Replenishment/Ammunition Ship				1	40.6	40.6	40.6
			Underway Replenishment/Oiler				15	20.9	25.6	16.2
		Other Combatant/Combat Logistics Total					32	14.5	40.6	0.8
		Other Combatant/Fleet Support	Command/Command Ship				2	41.5	41.6	41.4
			Material Support/Submarine Tender				2	33.1	33.4	32.8
			Salvage Ships/Salvage Ships				4	26.4	26.9	25.8
			Fleet Ocean Tugs/Fleet Ocean Tugs				4	31.6	32.1	31.0
			Surveillance/Surveillance				5	18.2	20.9	11.7
	1	Other Combatant/Fleet Support Total					17	27.8	41.6	11.7
		Other Combatant/Mine Warfare Type Ships	Mine Countermeasures Ships/Mine Countermeasures Ship				14	20.9	24.9	18.0
		Other Combatant/Mine Warfare Type Ships Total					14	20.9	24.9	18.0
	Combatant Ship Total	Tonips (Otal					285	19.0	50.7	0.6
Grand Total	Comparant Stilp Foral						285	19.0	50.7	0.6
orana Total				-			200	10.0	30.1	0.0

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Directory										
							Data			
5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Tupe	Hull No.	Ship Name	Commission Date	Count of Age	Average of Ag	e Max of	Min of
	T committee and a	, cooding charactering	y statistically right	(NVR Link)	-1	▼	o o ann o i i i gi	eruge or rig	Age	Age
■ Battleforce	□ Combatant Ship	■ Warship/Aircraft Carrier	□ Conventional Take Off and Landing Aircraft Carriers/Multi-	□ CVN 65	■ ENTERPRISE	11/25/1961	1	50.7	50.7	50.7
			purpose Aircraft Carrier (nuclear-powered)		CORNER DE LO SERVICIO DE LO SERVICIO	K. Innertical	151	200000000000000000000000000000000000000	200.000	933.94
				■ CVN 68	■ NIMITZ	5/3/1975	1	37.3	37.3	37.3
				■ CVN 69	■ DVIGHT D. EISENHOVER	10/18/1977	1	34.8	34.8	34.8
				■ CVN 70	□ CARL VINSON	3/13/1982	1	30.4	30.4	30.4
				□ CVN 71□ CVN 72	■ THEODORE ROOSEVELT ■ ABRAHAM LINCOLN	10/25/1986	1	25.7 22.7	25.7 22.7	25.7 22.7
				■ CVN 72	■ GEORGE WASHINGTON	7/4/1992	1	20.1	20.1	20.1
				CVN74	■ JOHN C. STENNIS	12/9/1995	- i -	16.7	16.7	16.7
				□ CVN 75	■ HARRY S. TRUMAN	7/25/1998	i	14.0	14.0	14.0
				⊕ CVN 76	■ RONALD REAGAN	7/12/2003	i	9,1	9,1	9.1
			The second control of the second control of	■ CVN 77	GEORGE H. W. BUSH	1/10/2009	1	3.2	3.2	3.2
			Conventional Take Off and Landing Aircraft Carriers/Multi-			•	11	24.1	50.7	3.2
			purpose Aircraft Carrier (nuclear-powered) Total							2
		Warship/Aircraft Carrier Total			Ş	72.	11	24.1	50.7	3.2
		■ Warship/Surface Combatant	□ Cruisers/Guided Missile Cruiser	⊕ CG 52	■ BUNKER HILL	9/20/1986	1	26.0	26.0	26.0
		1		□ CG 53 □ CG 54	■ MOBILE BAY ■ ANTIETAM	2/21/1987	1	25.6	25.6 25.3	25.6 25.3
				□ CG 55	■ ANTIETAM ■ LEYTE GULF	6/6/1987 9/26/1987	1	25.3 24.9	25.3	25.3
				□ CG 56	■ SAN JACINTO	1/23/1988	-	24.7	24.7	24.7
				⊕ CG 57	■ LAKE CHAMPLAIN	8/12/1988	 	24.1	24.1	24.1
				□ CG 58	PHILIPPINE SEA	3/18/1989	i	23.5	23.5	23.5
				⊕ CG 59	■ PRINCETON	2/11/1989	i	23.6	23.6	23.6
				⊕ CG 60	■ NORMANDY	12/9/1989	i	22.7	22.7	22.7
				□ CG 61	■ MONTEREY	6/16/1990	1	22.3	22.3	22.3
				■ CG 62	□ CHANCELLORSVILLE	11/4/1989	1	22.9	22.9	22.9
				■ CG 63	■ COVPENS	3/9/1991	1	21.7	21.7	21.7
				□ CG 64	■ GETTYSBURG	6/22/1991	1	21.3	21.3	21.3
				□ CG 65	□ CHOSIN	1/12/1991	1	21.7	21.7	21.7
				□ CG 66	■ HUE CITY	9/14/1991	1	21.0	21.0	21.0
				□ CG 67	SHILOH	7/18/1992	1	20.2	20.2	20.2
				□ CG 68	■ ANZIO	5/2/1992	1 1	20.4	20.4 19.8	20.4
				□ CG 69□ CG 70	□ VICKSBURG □ LAKE ERIE	11/14/1992 5/10/1993	1	19.8 19.3	19.8	19.8 19.3
				⊕ CG 70	□ CAPE ST. GEORGE	6/12/1993	+	19.3	19.3	19.3
				□ CG 72	■ VELLA GULF	9/18/1993	+	19.0	19.0	19.0
				□ CG 73	■ PORT ROYAL	7/4/1994	 	18.2	18.2	18.2
			Cruisers/Guided Missile Cruiser Total	50010	I ST STITIOTAL	11411004	22	22.2	26.0	18.2
			Destroyers/Guided Missile Destroyer	□ DDG 100	I ⊕ KIDD	6/9/2007	1	5.6	5.6	5.6
				■ DDG 101	GRIDLEY	2/10/2007	i	5.8	5.8	5.8
				■ DDG 102	■ SAMPSON	11/3/2007	i	5.1	5.1	5.1
				⊕ DDG 103	■ TRUXTUN	4/25/2009	1	3.7	3.7	3.7
				■ DDG 104	■ STERETT	8/9/2008	1	4.4	4.4	4.4
5				■ DDG 105	■ DEVEY	3/6/2010		2.9	2.9	2.9
I P PI OL	uikLook 5030.8A Battleforce	OuikLook 5030.8A NonB	attleforce OuikLook NVR Ship Battle Forces	Ouild ook	NVRLocDef&MiscSptForce	Ship-Age Pivo	tTable / 📆	/ [4]	III	

Appendix

Listing of the Visual Basic code for the macro, AgeFuncFlt

' This is the initial function. It takes in a start date and an end date. Public Function AgeFuncFlt(stdate As Variant, endate As Variant)

' Dim our variables.

Dim stvar As String

Dim stmon As String

Dim stday As String

Dim styr As String

Dim endvar As String

Dim endmon As String

Dim endday As String

Dim endyr As String

Dim stmonf As Integer

Dim stdayf As Integer

Dim styrf As Integer

Dim styrflt As Single

Dim endmonf As Integer

Dim enddayf As Integer

Dim endyrf As Integer

Dim endyrflt As Single

Dim years As Single

Dim yearsflt As Single

^{&#}x27;This variable will be used to modify string length. Dim fx As Integer fx = 0

^{&#}x27; Calls custom function sfunc which runs the Search worksheet function

^{&#}x27; and returns the results.

^{&#}x27; Searches for the first "/" sign in the start date. stvar = sfunc("/", stdate)

```
' Parse the month and day from the start date.
stmon = Left(stdate, sfunc("/", stdate) - 1)
stday = Mid(stdate, stvar + 1, sfunc("/", stdate, sfunc("/", stdate) + 1) - stvar - 1)
'Check the length of the day and month strings and modify the string
' length variable.
If Len(stday) = 1 Then fx = fx + 1
If Len(stmon) = 2 Then fx = fx + 1
' Parse the year, using information from the string length variable.
styr = Right(stdate, Len(stdate) - (sfunc("/", stdate) + 1) - stvar + fx)
'Change the text values we obtained to integers for calculation
'purposes.
stmonf = CInt(stmon)
stdayf = CInt(stday)
styrf = CInt(styr)
styrflt = styrf + stmonf / 12 + stdayf / 365.25
' Check for valid date entries.
If stmonf < 1 Or stmonf > 12 Or stdayf < 1 Or stdayf > 31 Or styrf < 1 Then
  AgeFuncFlt = "Invalid Date"
  Exit Function
End If
'Reset the string length variable.
fx = 0
' Parse the first "/" sign from the end date.
endvar = sfunc("/", endate)
' Parse the month and day from the end date.
endmon = Left(endate, sfunc("/", endate) - 1)
endday = Mid(endate, endvar + 1, sfunc("/", endate, sfunc("/", endate) + 1) - endvar - 1)
```

```
'Check the length of the day and month strings and modify the string
' length variable.
If Len(endday) = 1 Then fx = fx + 1
If Len(endmon) = 2 Then fx = fx + 1
' Parse the year, using information from the string length variable.
endyr = Right(endate, Len(endate) - (sfunc("/", endate) + 1) - endvar + fx)
' Change the text values we obtained to integers for calculation
' purposes.
endmonf = CInt(endmon)
enddayf = CInt(endday)
endyrf = CInt(endyr)
endyrflt = endyrf + endmonf / 12 + enddayf / 365.25
'Check for valid date entries.
If endmonf < 1 Or endmonf > 12 Or enddayf < 1 Or enddayf > 31 Or endyrf < 1 Then
  AgeFuncFlt = "Invalid Date"
  Exit Function
End If
' Determine the initial number of years by subtracting the first and
' second year.
vears = endyrflt - styrflt
'Look at the month and day values to make sure a full year has passed.
' If stmonf > endmonf Then
  years = years - 1
'End If
'If stmonf = endmonf And stdayf > enddayf Then
  years = years - 1
'End If
```

```
' Make sure that we are not returning a negative number and, if not, 
' return the years.

If years < 0 Then

AgeFuncFlt = "Invalid Date"

Else

AgeFuncFlt = years

End If
```

End Function

- 'This is a second function that the first will call.
- ' It runs the Search worksheet function with arguments passed from AgeFunc.
- ' It is used so that the code is easier to read.

Public Function sfunc(x As Variant, y As Variant, Optional z As Variant)
sfunc = Application.WorksheetFunction.Search(x, y, z)

End Function

Glossary

ACS Auxiliary Crane Ship
AG Miscellaneous Auxiliary

AOT/T-AOT Transport Oiler
AS Submarine Tender

AVB Aviation Logistic Support Ship

BAT_FOR_CAT

CG

Battle Force Category

Guided Missile Cruiser

CVN Multi-purpose Aircraft Carrier (Nuclear-Propulsion)

DANFS Dictionary of American Naval Fighting Ships

DDG Guided Missile Destroyer
FFG Guided Missile Frigate
ISDB Integrated Ship Database
FOS Full Operating Status

LCC Amphibious Command Ship

LCS Littoral Combat Ship

LHA Amphibious Assault Ship (General Purpose)
LHD Amphibious Assault Ship (Multi-Purpose)

LPD Amphibious Transport Dock

LSD Dock Landing Ship

MARAD Maritime Administration (U.S. Department of

Transportation)

MCM Mine Countermeasures Ship
MLP Mobile Landing Platform
MSC Military Sealift Command
NAVSEA Naval Sea Systems Command

NAVSHIPSO NAVSEA Shipbuilding Support Office

NDRF National Defense Reserve Fleet
NHHC Naval History & Heritage Command

NVR Naval Vessel Register

OOA Out of Action
PC Patrol Coastal

PCU Pre-Commissioning Unit

PMARS Property Management & Archive Record System

(MARAD)

ROS Reduced Operating Status

RRF Ready Reserve Fleet

SASDT Ship Annual Supplemental Data Tables

(Formerly, Ships and Aircraft Supplemental Data

Tables)

SCN Shipbuilding and Conversion, Navy

SSBN Ballistic Missile Submarine (nuclear-powered)
SSGN Guided Missile Submarine (nuclear-powered)

SSN Attack Submarine (nuclear-powered)

T-AE Ammunition Ship

T-AGM Missile Range Instrumentation Ship

T-AGOS Ocean Surveillance Ship

T-AGS Surveying Ship
T-AH Hospital Ship
AK/T-AK Cargo Ship

T-AKE Dry Cargo and Ammunition Ship

AKR/T-AKR Vehicle Cargo Ship

T-AO Oiler

T-AOE Fast Combat Support Ship
T-ARC Cable Repairing Ship
T-ARS Salvage and Rescue Ship

T-ATF Fleet Ocean Tug

UIC Unit Identification Code USNS United States Naval Ship

USS United States Ship

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